

TEST REPORT

Applicant: vivo Mobile Communication Co., Ltd.
Address: No.1, vivo Road, Chang'an, Dongguan, Guangdong, China
Equipment Type: Mobile Phone
Model Name: V2436
Brand Name: vivo
FCC ID: 2AUCY -V2436
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Dec. 25. 2024
Test Date: Dec. 26. 2024 - Jan. 14, 2025
Date of Issue: Jan. 23, 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. 23, 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	V2436
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	MP_0.1
Software Version	PD2444CF_EX_A_15.0.3.5.W30
Dimensions (Approx.)	165.7*76.3*8.28mm(ink) 165.7*76.3*8.37mm(film)
Weight (Approx.)	207g

2.4 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	vivo
	Model No.	BA89
	Serial No.	N/A
	Capacity	Rated capacity: 6360mAh/24.87Wh Typical capacity: 6500mAh/25.42Wh
	Rated Voltage	3.91V
	Limit Charge Voltage	4.50V
	manufacture	Sunwoda Electronic Co., Ltd.
Ancillary Equipment 2	Adapter 1	
	Brand Name	vivo
	Model No.	V4440L0A0-US (US Plug)
	Serial No.	N/A
	Rated Input	100-240V~ 50/60Hz, 1.1A
	Rated Output	5.0V= 3.0A, 9.0V= 2.0A, 11.0V= 4.0A
	manufacture	vivo Mobile Communication Co., Ltd.

Ancillary Equipment 3	Adapter 2	
	Brand Name	vivo
	Model No.	V4440L0A0-EU (EU Plug)
	Serial No.	N/A
	Rated Input	100-240V~ 50/60Hz, 1.1A
	Rated Output	5.0V= 3.0A, 9.0V= 2.0A, 11.0V= 4.0A
	manufacture	vivo Mobile Communication Co., Ltd.
Ancillary Equipment 4	USB Cable	
	Length (Approx.)	1m
Note 1: Letter in () means plug type.		
Note 2: All adapters are tested, only the worst data of V4440L0A0-US (US Plug) 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 FDD LTE Band 2/4/5/7/12/13/17/18/19/26/66 TDD LTE Band 38/41 LTE CA Uplink (UL): CA_7C, CA_41C, CA_66C, CA_2A-4A, CA_2A-7A, CA_4A-5A, CA_4A-7A, CA_5A-7A, CA_5A-66A, CA_7A-4A 5G Network SA: NR n2/n5/n7/n26/n38/n41/n66/n77/n78 NSA(EN-DC): DC_4A_n2A, DC_66A_n2A, DC_7A_n2A, DC_4A_n38A, DC_66A_n38A, DC_4A_n41A, DC_66A_n41A, DC_7A_n5A, DC_2A_n66A, DC_5A_n66A, DC_7A_n66A, DC_2A_n7A, DC_4A_n7A, DC_7A_n4A, DC_5A_n7A, DC_66A_n7A, DC_7A_n77A, DC_2A_n78A, DC_38A_n78A, DC_41A_n78A, DC_4A_n78A, DC_5A_n78A, DC_66A_n78A, DC_7A_n78A Bluetooth (BR+EDR+BLE) WIFI 802.11b, 802.11g, WIFI 802.11a, 802.11n(HT20/40) and 802.11ac(VHT20/40/80) GPS, GLONASS, BDS, Galileo, QZSS, SBAS, NFC
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	--

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	☒
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 Earphone	OPPO	MH156	N/A	1.12m	N/A	☒
TF Card	Samsung	MB-MD256KA	N/A	N/A	256G	☒

4.2 Test Configurations

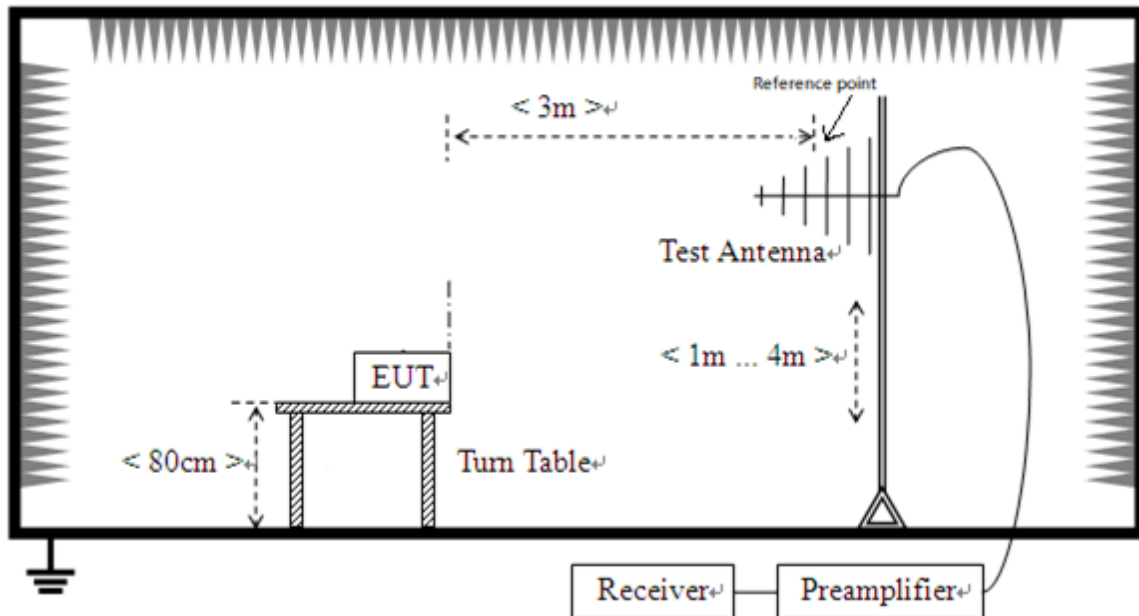
All test modes of EUT are listed in the table below.

Test Mode Configuration	Description
Mode 1	<u>The Only Charing Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card
Mode 2	<u>The Rear Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card
Mode 3	<u>The Front Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card
Mode 4	<u>The Video Play Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card
Mode 5	<u>The USB Test Mode</u> EUT + USB Cable + Battery + Laptop + TF Card
Mode 6	<u>The OTG Test Mode</u> EUT + Battery + Data connector + USB disk + TF Card
Mode 7	<u>The Type-C Headset Test Mode</u> EUT + Type-C Headset + Battery + TF Card

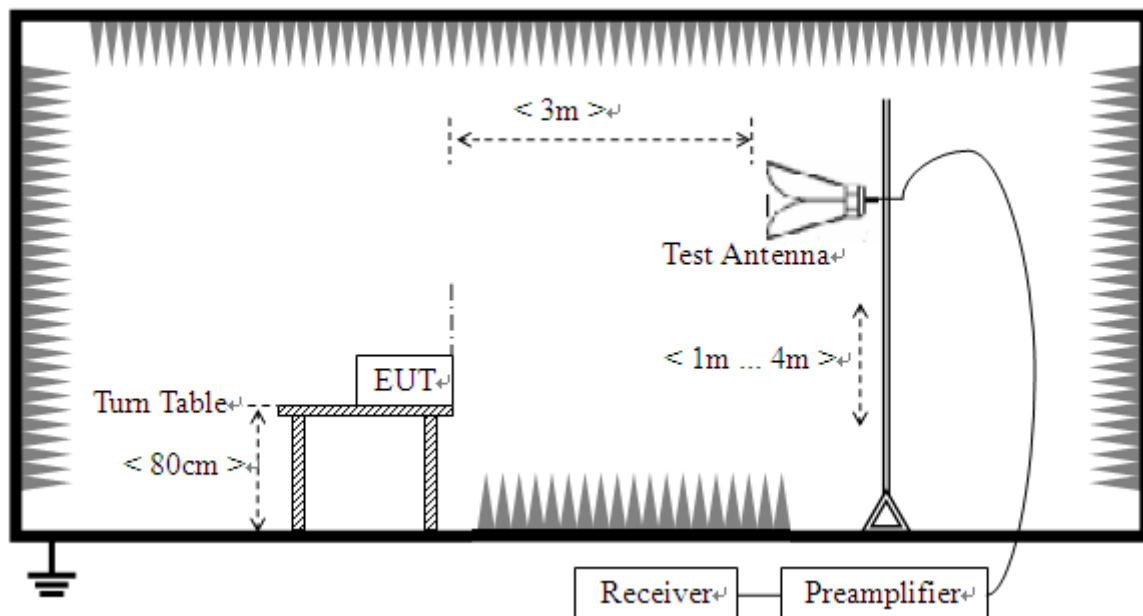
Test Case	Test Mode Configuration	Worst Mode
Radiated Emission	Mode 1~Mode 7	1, 5
Conducted Emission, AC Ports	Mode 1~Mode 5	1, 5
Note: All operation modes were tested, but only test data of the worst mode was presented in this report.		

4.3 Test Setups

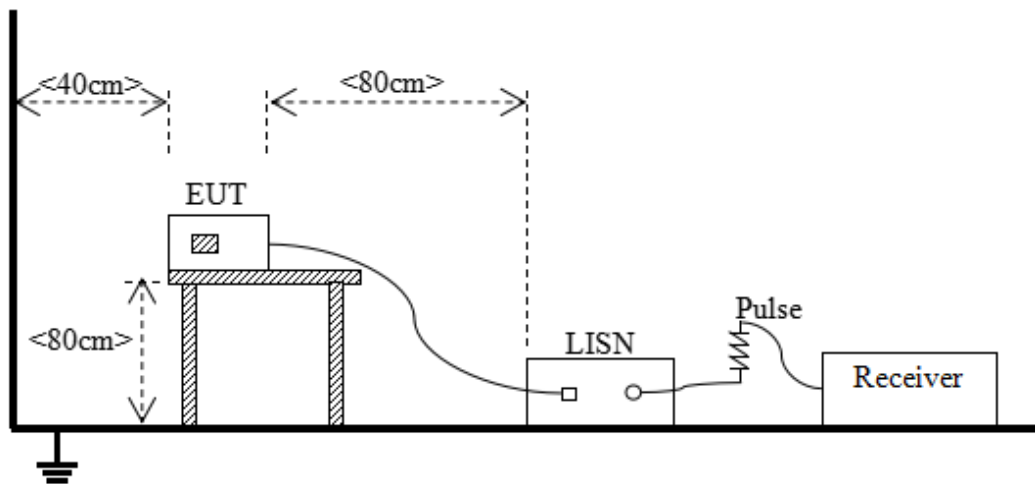
Test Setup 1



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

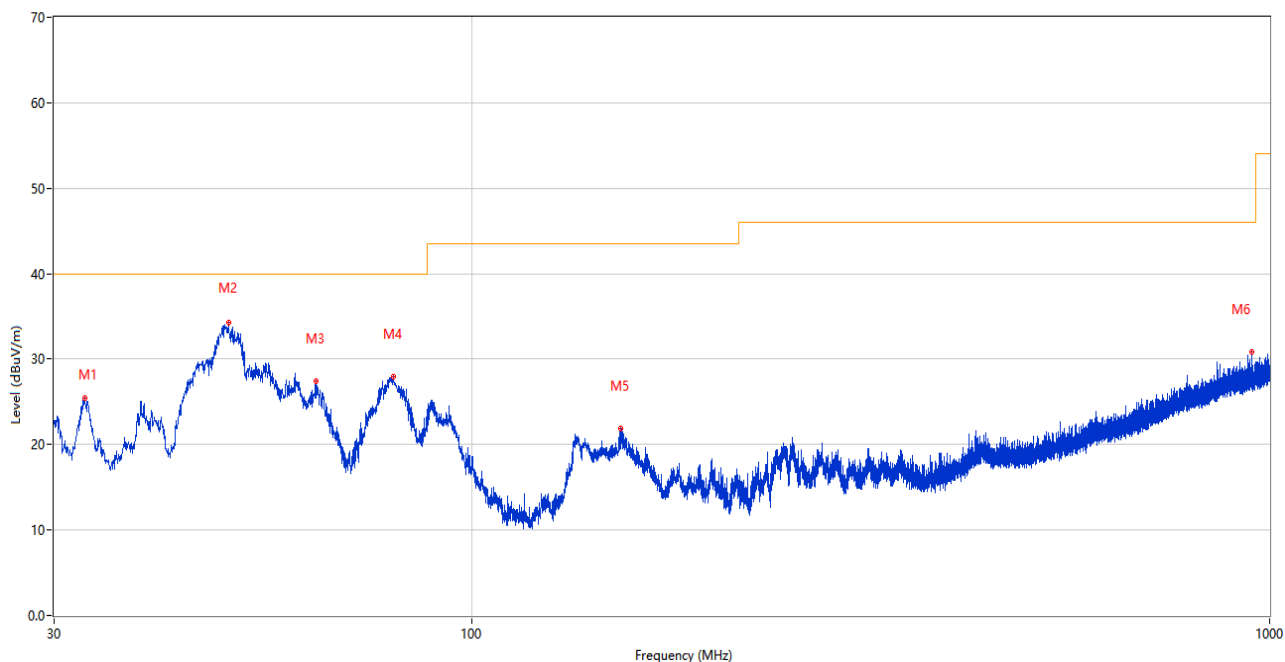
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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.	S01	Temperature	22.7℃
Humidity	39%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2024.12.27

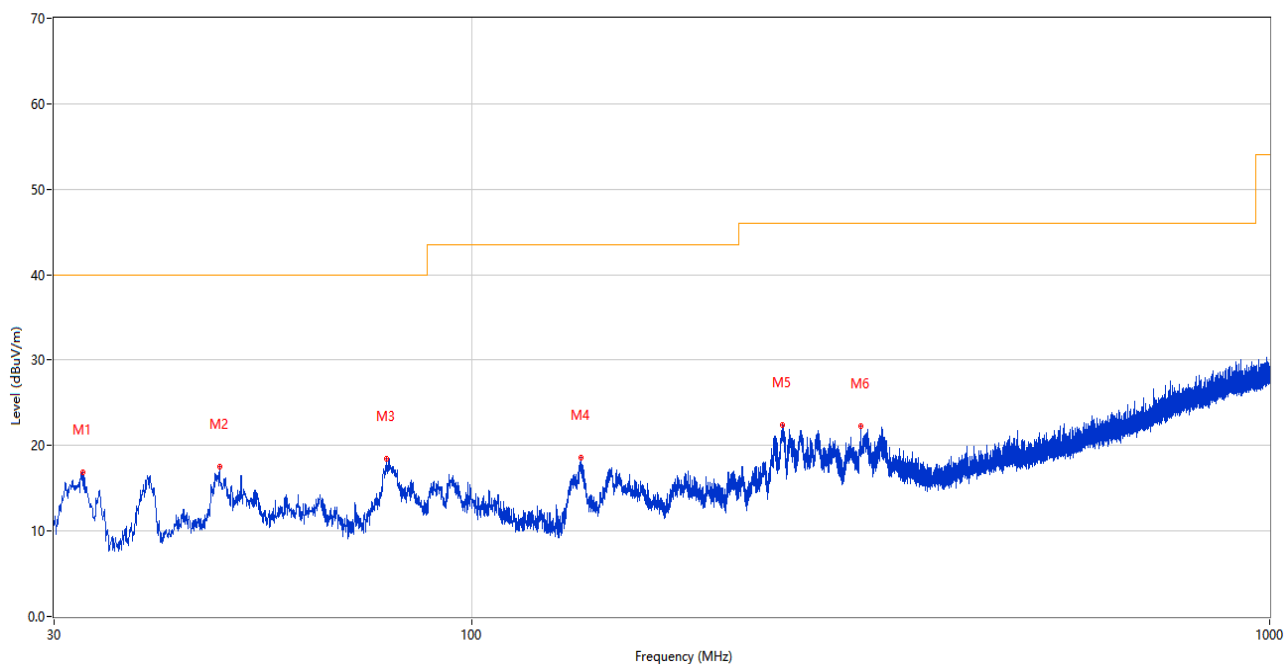
Test Mode 1

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	32.764	25.47	-28.86	40.0	14.53	Peak	10.00	100	Vertical	Pass
2	49.642	34.24	-25.64	40.0	5.76	Peak	0.00	100	Vertical	Pass
3	63.950	27.39	-26.81	40.0	12.61	Peak	163.00	100	Vertical	Pass
4	79.761	27.97	-30.90	40.0	12.03	Peak	351.00	100	Vertical	Pass
5	153.626	21.86	-29.83	43.5	21.64	Peak	360.00	100	Vertical	Pass
6	949.075	30.88	-9.31	46.0	15.12	Peak	39.00	100	Vertical	Pass

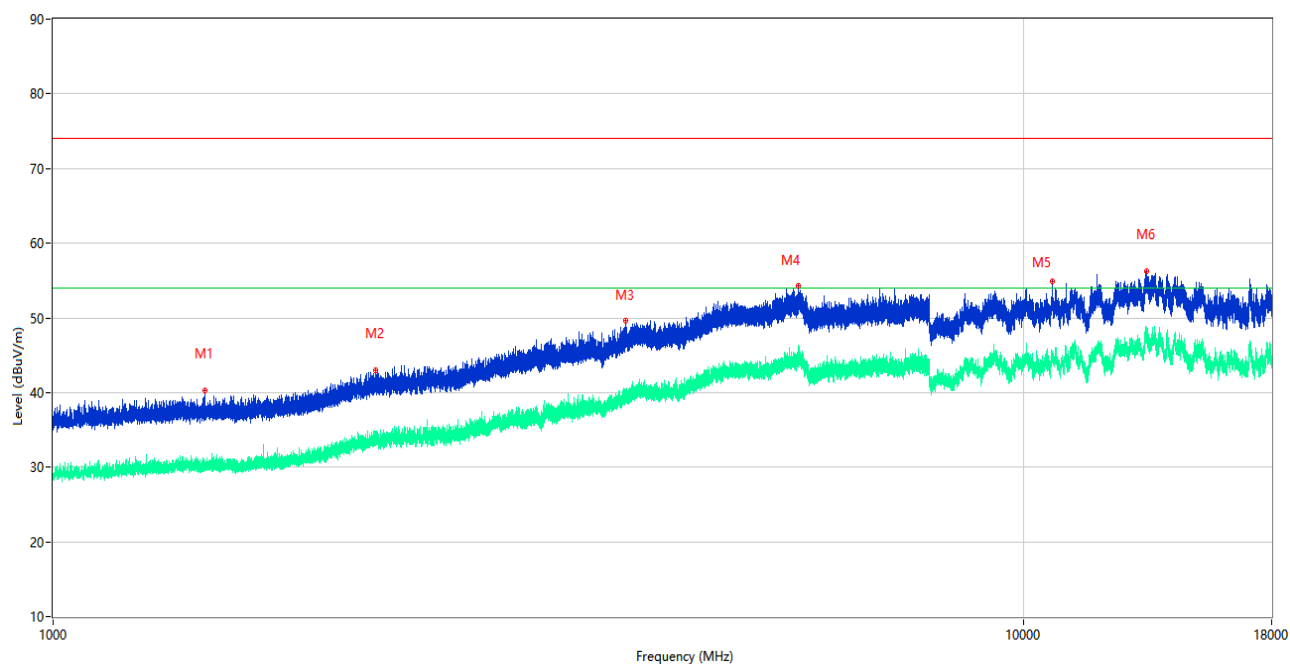
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	32.571	16.93	-28.50	40.0	23.07	Peak	29.00	200	Horizontal	Pass
2	48.382	17.50	-25.30	40.0	22.50	Peak	60.00	100	Horizontal	Pass
3	78.209	18.52	-31.11	40.0	21.48	Peak	167.00	200	Horizontal	Pass
4	137.234	18.53	-30.33	43.5	24.97	Peak	270.00	200	Horizontal	Pass
5	245.583	22.46	-25.16	46.0	23.54	Peak	102.00	100	Horizontal	Pass
6	307.274	22.24	-23.48	46.0	23.76	Peak	234.00	100	Horizontal	Pass

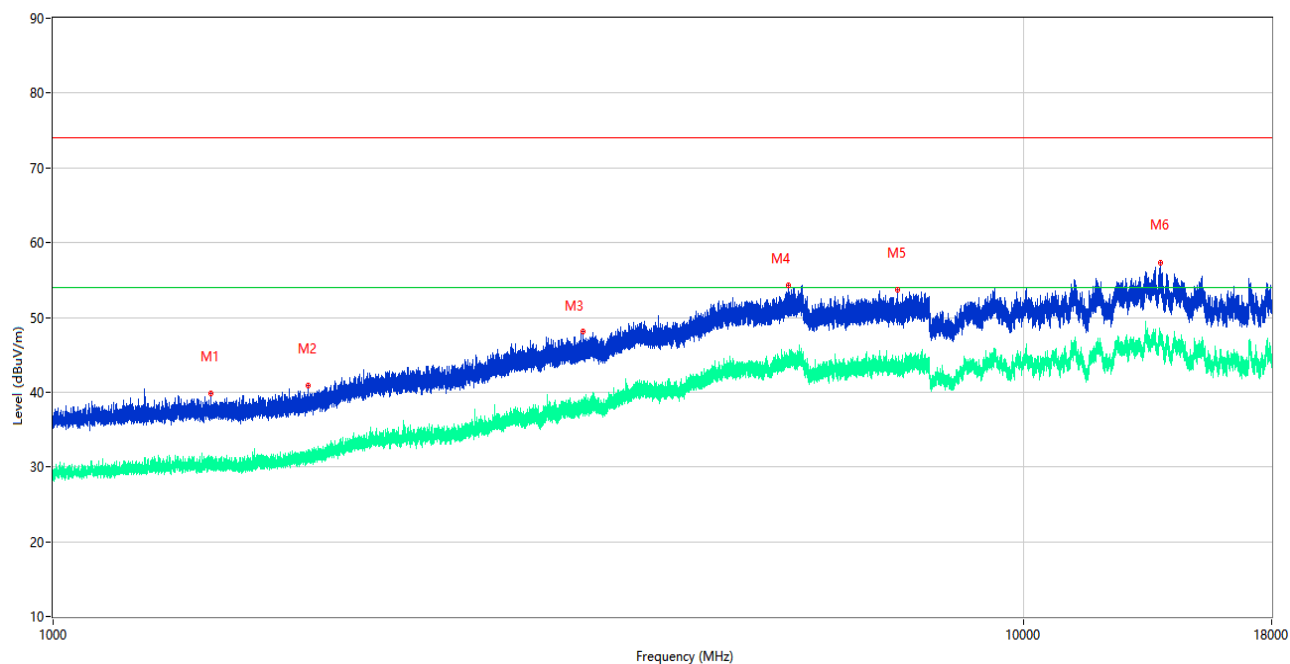
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2024.08.01	2025.07.31	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2024.11.28	2025.11.27	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168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



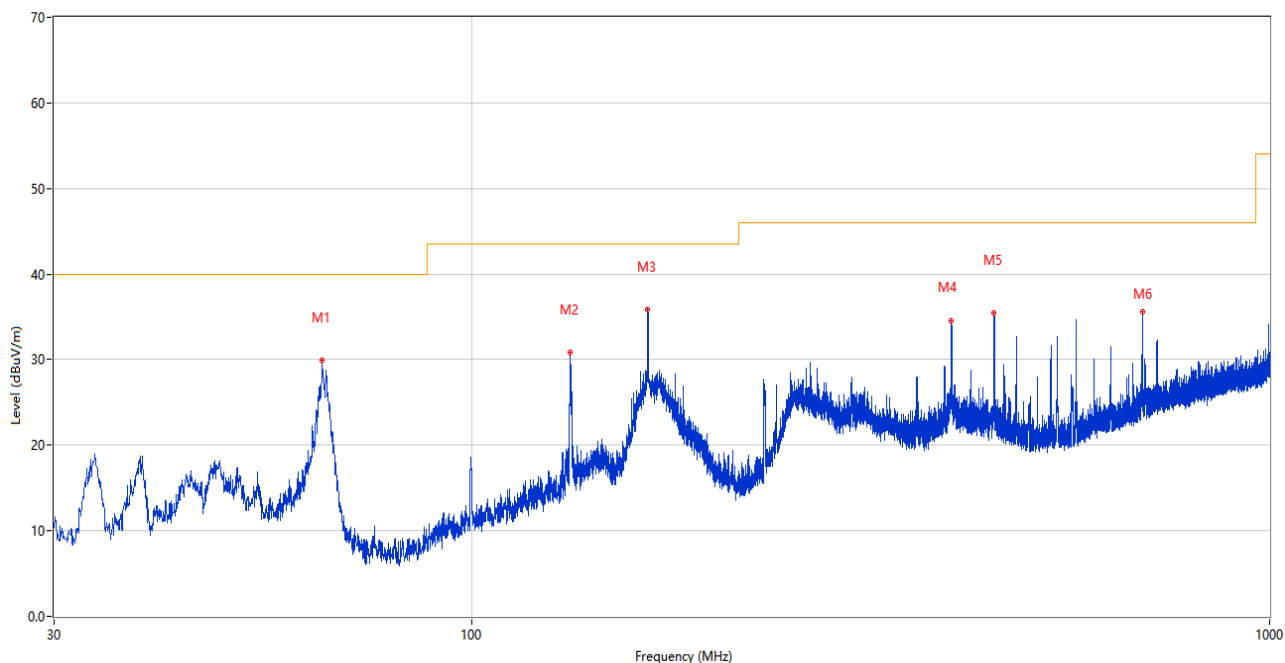
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1433.030	40.24	-15.43	74.0	33.76	Peak	64.00	100	Vertical	Pass
1**	1433.030	30.30	-15.43	54.0	23.70	AV	64.00	100	Vertical	Pass
2	2147.250	42.95	-12.55	74.0	31.05	Peak	41.00	100	Vertical	Pass
2**	2147.250	32.86	-12.55	54.0	21.14	AV	41.00	100	Vertical	Pass
3	3889.740	49.69	-2.43	74.0	24.31	Peak	71.00	100	Vertical	Pass
3**	3889.740	39.46	-2.43	54.0	14.54	AV	71.00	100	Vertical	Pass
4	5854.340	54.30	2.28	74.0	19.70	Peak	344.00	100	Vertical	Pass
4**	5854.340	44.02	2.28	54.0	9.98	AV	344.00	100	Vertical	Pass
5	10698.500	54.85	1.55	74.0	19.15	Peak	326.00	100	Vertical	Pass
5**	10698.500	45.02	1.55	54.0	8.98	AV	326.00	100	Vertical	Pass
6	13382.000	56.23	5.02	74.0	17.77	Peak	340.00	100	Vertical	Pass
6**	13382.000	47.25	5.02	54.0	6.75	AV	340.00	100	Vertical	Pass

4) Test Antenna Horizontal, 1 GHz – 18 GHz



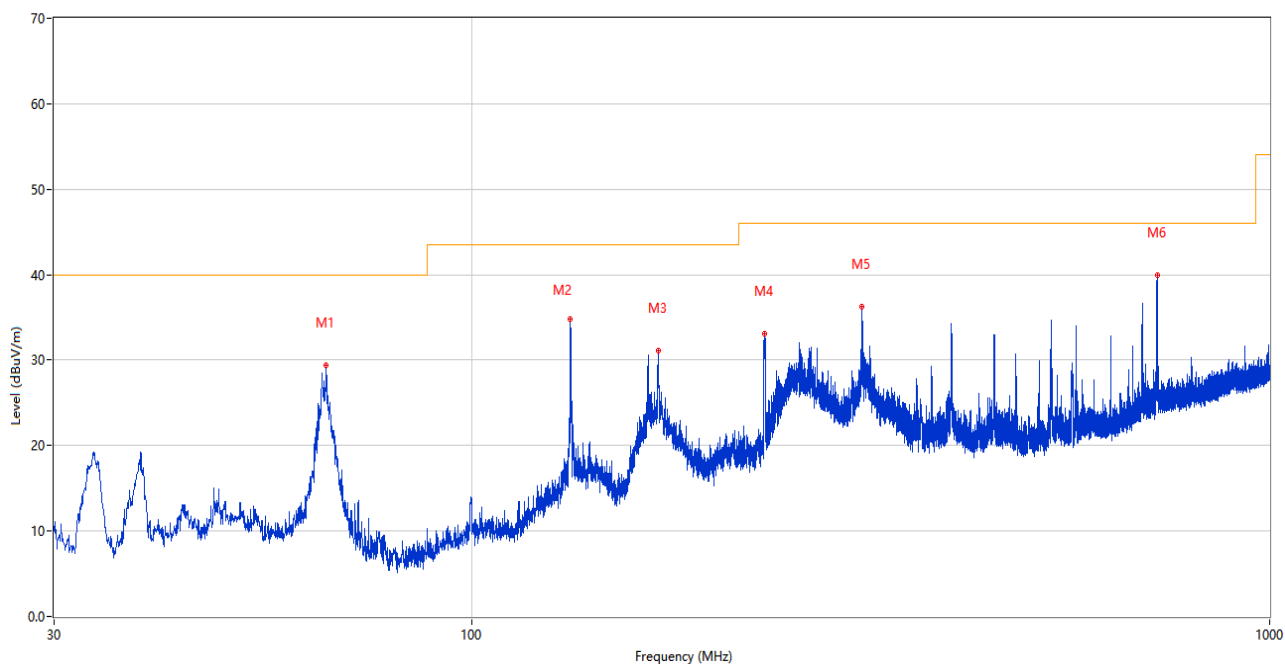
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1454.870	39.79	-15.54	74.0	34.21	Peak	224.00	100	Horizontal	Pass
1**	1454.870	30.58	-15.54	54.0	23.42	AV	224.00	100	Horizontal	Pass
2	1830.050	40.82	-15.06	74.0	33.18	Peak	296.00	100	Horizontal	Pass
2**	1830.050	31.00	-15.06	54.0	23.00	AV	296.00	100	Horizontal	Pass
3	3510.820	48.19	-5.34	74.0	25.81	Peak	273.00	100	Horizontal	Pass
3**	3510.820	37.98	-5.34	54.0	16.02	AV	273.00	100	Horizontal	Pass
4	5719.920	54.27	0.99	74.0	19.73	Peak	72.00	100	Horizontal	Pass
4**	5719.920	44.38	0.99	54.0	9.62	AV	72.00	100	Horizontal	Pass
5	7404.020	53.67	-0.24	74.0	20.33	Peak	63.00	100	Horizontal	Pass
5**	7404.020	42.58	-0.24	54.0	11.42	AV	63.00	100	Horizontal	Pass
6	13813.500	57.38	5.64	74.0	16.62	Peak	84.00	100	Horizontal	Pass
6**	13813.500	47.43	5.64	54.0	6.57	AV	84.00	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 5**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	64.969	29.94	-26.68	40.0	10.06	Peak	200.00	200	Vertical	Pass
2	132.917	30.89	-29.93	43.5	12.61	Peak	165.00	100	Vertical	Pass
3	166.139	35.86	-29.06	43.5	7.64	Peak	63.00	100	Vertical	Pass
4	398.649	34.54	-21.08	46.0	11.46	Peak	135.00	100	Vertical	Pass
5	451.707	35.40	-19.84	46.0	10.60	Peak	118.00	100	Vertical	Pass
6	692.558	35.65	-14.22	46.0	10.35	Peak	176.00	100	Vertical	Pass

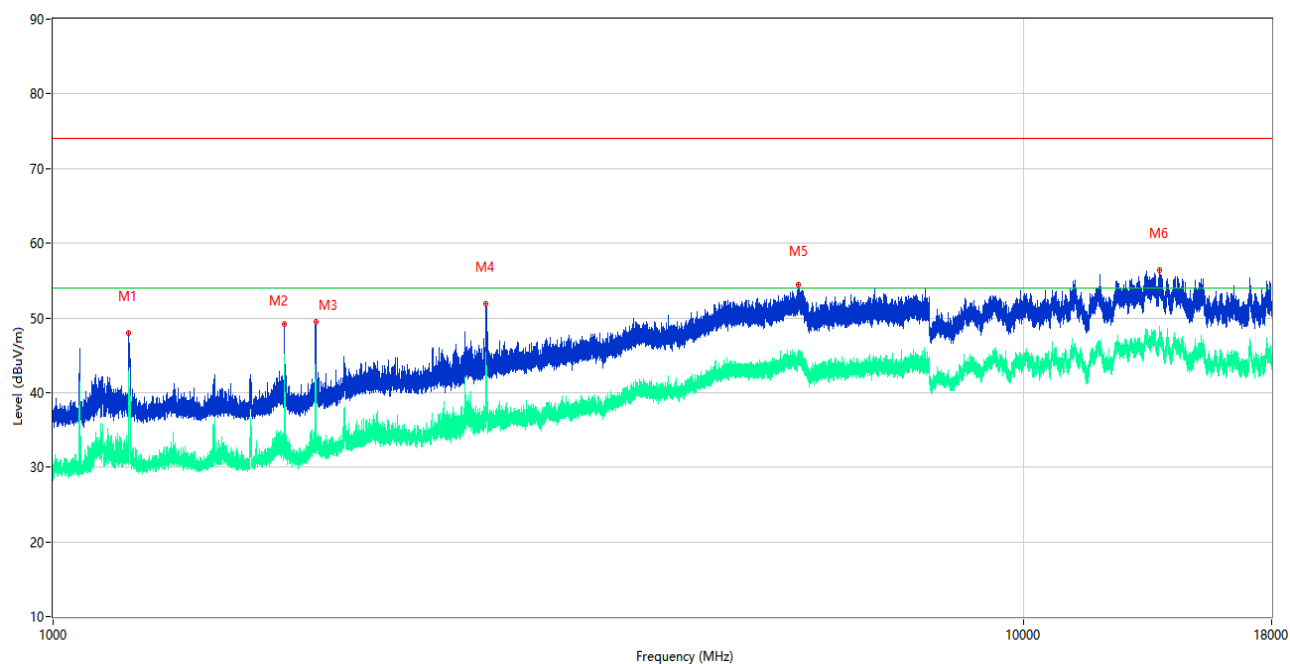
6) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	65.745	29.36	-28.11	40.0	10.64	Peak	7.00	200	Horizontal	Pass
2	132.917	34.81	-29.93	43.5	8.69	Peak	222.00	200	Horizontal	Pass
3	171.426	31.07	-28.70	43.5	12.43	Peak	209.00	200	Horizontal	Pass
4	233.264	33.07	-25.41	46.0	12.93	Peak	63.00	100	Horizontal	Pass
5	308.487	36.31	-23.41	46.0	9.69	Peak	346.00	100	Horizontal	Pass
6	722.774	39.98	-13.52	46.0	6.02	Peak	107.00	200	Horizontal	Pass

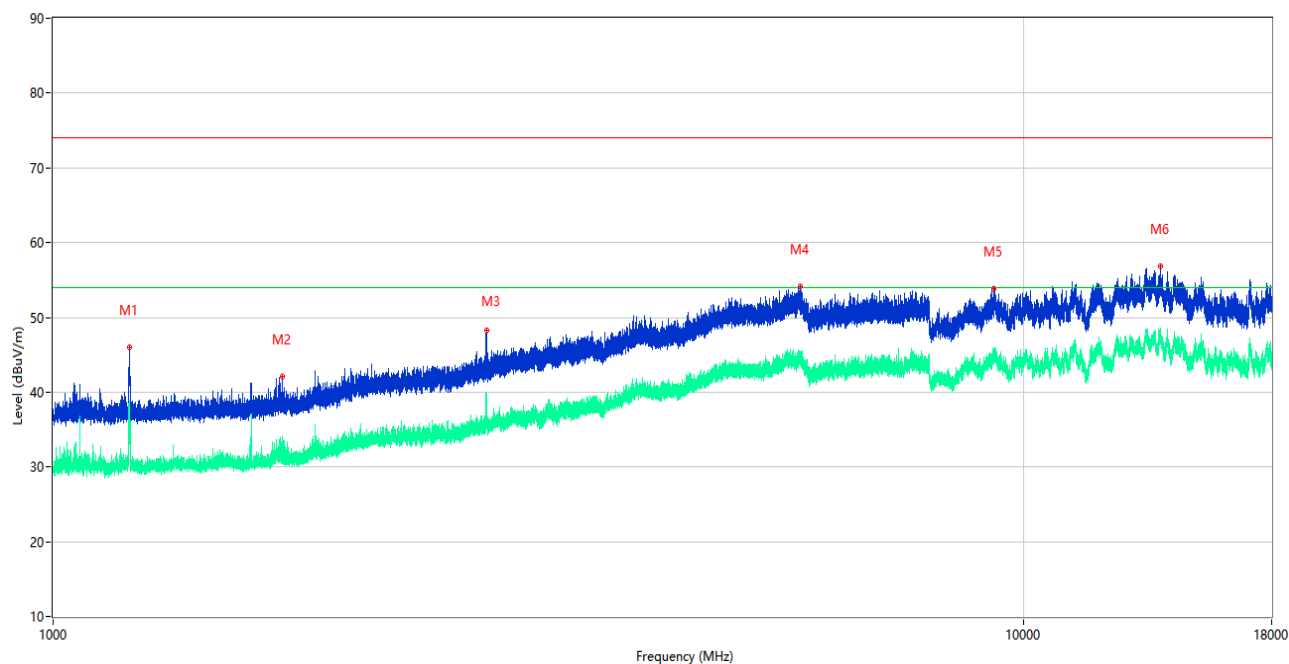
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2024.08.01	2025.07.31	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2024.11.28	2025.11.27	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168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

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	1196.430	47.90	-15.70	74.0	26.10	Peak	211.00	100	Vertical	Pass
1**	1196.430	42.78	-15.70	54.0	11.22	AV	211.00	100	Vertical	Pass
2	1732.420	49.11	-15.47	74.0	24.89	Peak	192.00	100	Vertical	Pass
2**	1732.420	45.15	-15.47	54.0	8.85	AV	192.00	100	Vertical	Pass
3	1864.240	49.47	-14.38	74.0	24.53	Peak	0.00	100	Vertical	Pass
3**	1864.240	41.78	-14.38	54.0	12.22	AV	0.00	100	Vertical	Pass
4	2789.840	51.85	-8.49	74.0	22.15	Peak	154.00	100	Vertical	Pass
4**	2789.840	38.75	-8.49	54.0	15.25	AV	154.00	100	Vertical	Pass
5	5858.740	54.43	2.44	74.0	19.57	Peak	16.00	100	Vertical	Pass
5**	5858.740	45.54	2.44	54.0	8.46	AV	16.00	100	Vertical	Pass
6	13806.500	56.36	5.73	74.0	17.64	Peak	283.00	100	Vertical	Pass
6**	13806.500	47.42	5.73	54.0	6.58	AV	283.00	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	1199.550	46.00	-15.77	74.0	28.00	Peak	136.00	100	Horizontal	Pass
1**	1199.550	37.10	-15.77	54.0	16.90	AV	136.00	100	Horizontal	Pass
2	1722.280	42.12	-15.48	74.0	31.88	Peak	126.00	100	Horizontal	Pass
2**	1722.280	31.86	-15.48	54.0	22.14	AV	126.00	100	Horizontal	Pass
3	2797.770	48.32	-8.30	74.0	25.68	Peak	122.00	100	Horizontal	Pass
3**	2797.770	37.67	-8.30	54.0	16.33	AV	122.00	100	Horizontal	Pass
4	5888.000	54.08	2.24	74.0	19.92	Peak	53.00	100	Horizontal	Pass
4**	5888.000	44.61	2.24	54.0	9.39	AV	53.00	100	Horizontal	Pass
5	9316.000	53.79	2.18	74.0	20.21	Peak	168.00	100	Horizontal	Pass
5**	9316.000	44.92	2.18	54.0	9.08	AV	168.00	100	Horizontal	Pass
6	13827.500	56.82	5.46	74.0	17.18	Peak	63.00	100	Horizontal	Pass
6**	13827.500	46.58	5.46	54.0	7.42	AV	63.00	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	/		☒

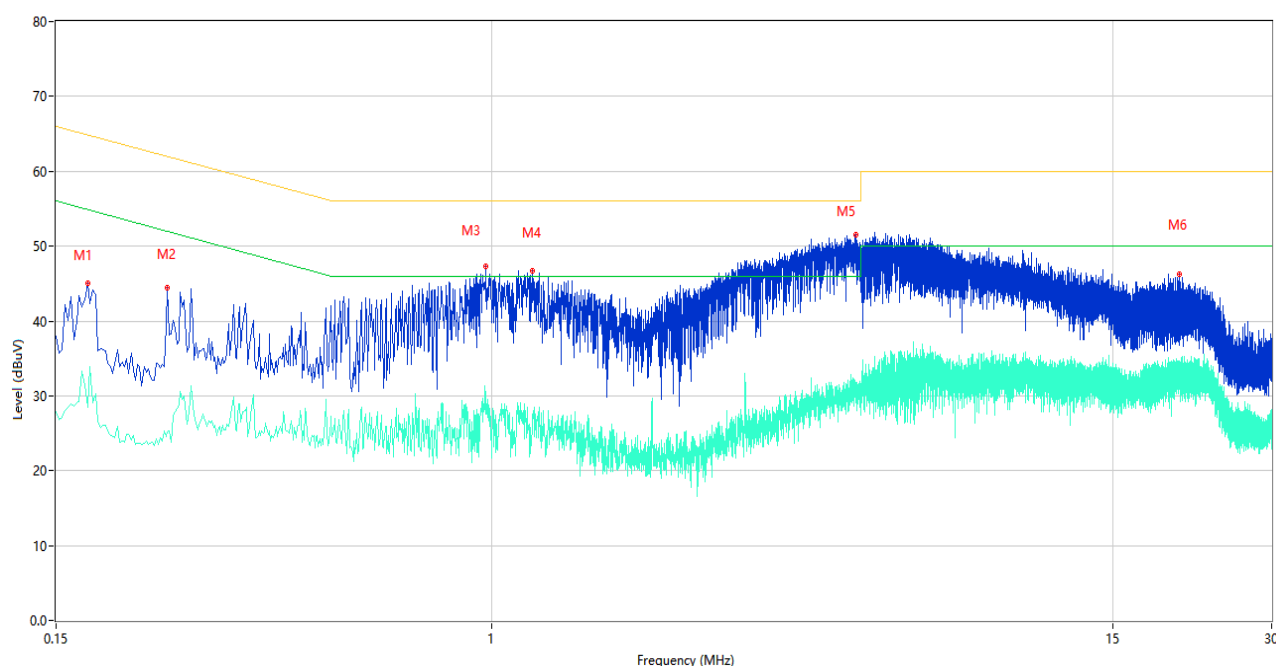
A.2 Conducted Emission, AC Ports

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.	S01	Temperature	22.7℃
Humidity	39%RH	Pressure	101kPa
Test Engineer	Yang Yang	Test Date	2025.01.03

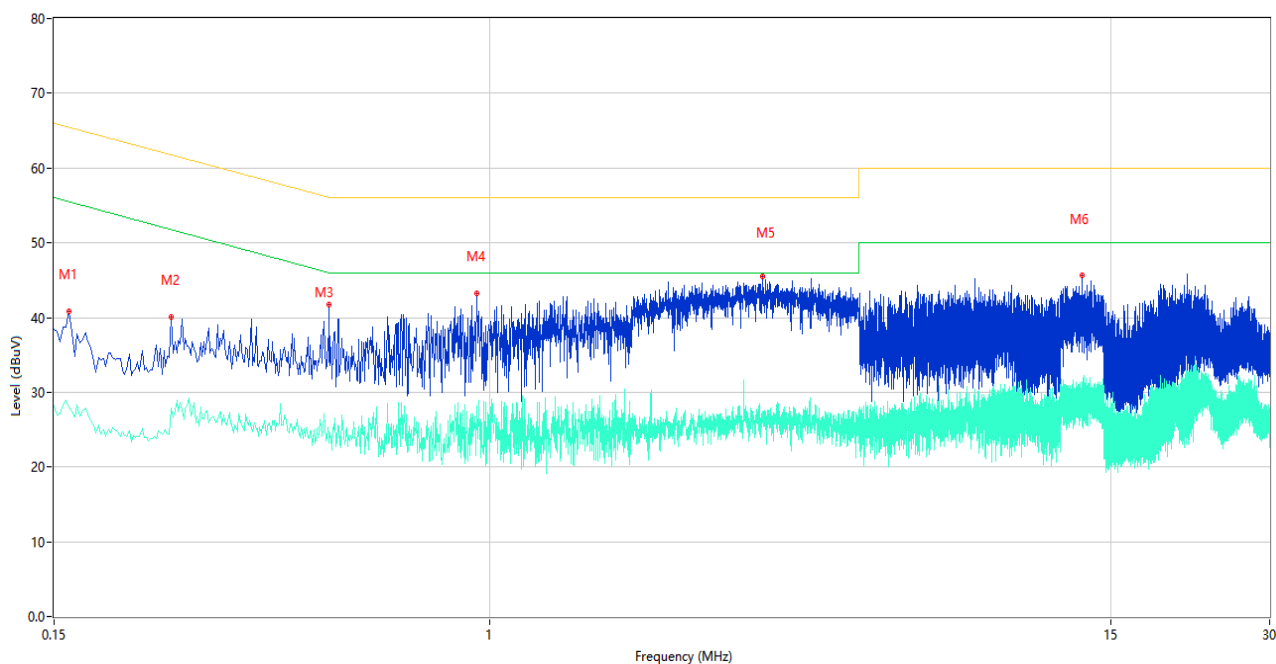
Test Mode 1

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.172	45.12	10.06	64.86	19.74	Peak	L	Pass
1**	0.172	28.44	10.06	54.86	26.42	AV	L	Pass
2	0.244	44.42	10.03	61.96	17.54	Peak	L	Pass
2**	0.244	25.15	10.03	51.96	26.81	AV	L	Pass
3	0.978	47.32	10.63	56.00	8.68	Peak	L	Pass
3**	0.978	30.65	10.63	46.00	15.35	AV	L	Pass
4	1.196	46.75	10.76	56.00	9.25	Peak	L	Pass
4**	1.196	27.60	10.76	46.00	18.40	AV	L	Pass
5	4.894	51.52	11.29	56.00	4.48	Peak	L	Pass
5**	4.894	30.14	11.29	46.00	15.86	AV	L	Pass
6	20.028	46.20	15.11	60.00	13.80	Peak	L	Pass
6**	20.028	31.47	15.11	50.00	18.53	AV	L	Pass

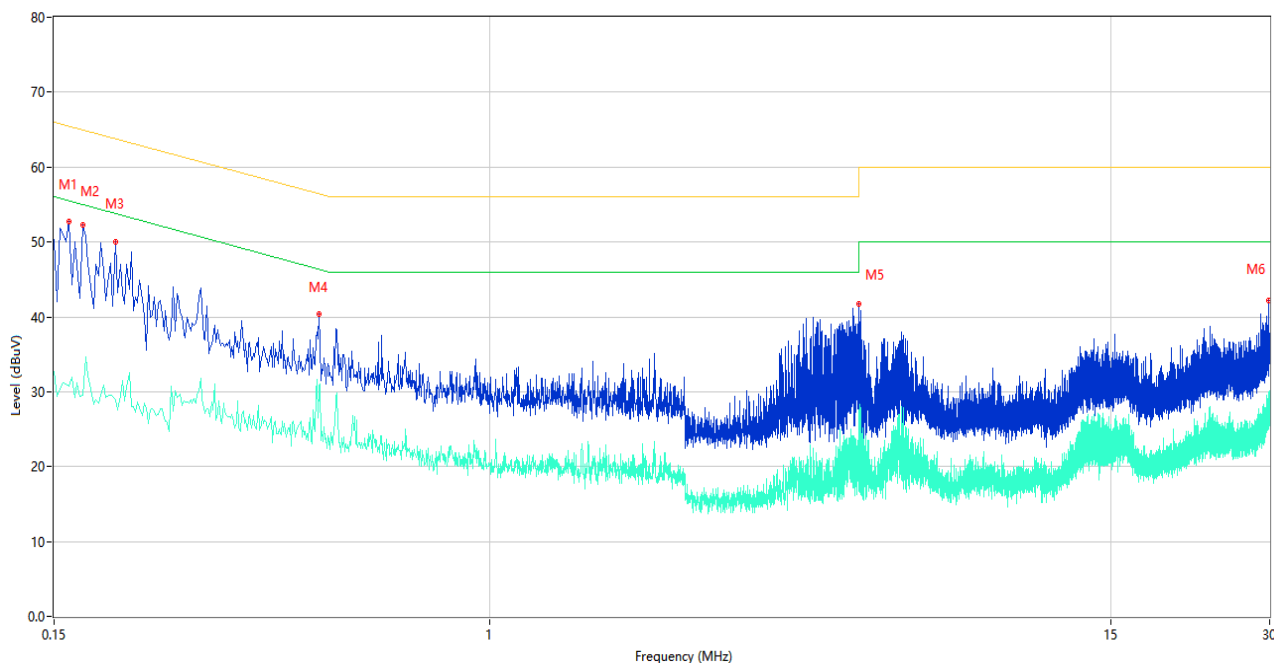
2) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.160	40.79	10.10	65.46	24.67	Peak	N	Pass
1**	0.160	28.03	10.10	55.46	27.43	AV	N	Pass
2	0.250	40.07	10.03	61.76	21.69	Peak	N	Pass
2**	0.250	27.81	10.03	51.76	23.95	AV	N	Pass
3	0.498	41.79	10.32	56.03	14.24	Peak	N	Pass
3**	0.498	23.21	10.32	46.03	22.82	AV	N	Pass
4	0.948	43.17	11.01	56.00	12.83	Peak	N	Pass
4**	0.948	26.79	11.01	46.00	19.21	AV	N	Pass
5	3.290	45.56	10.96	56.00	10.44	Peak	N	Pass
5**	3.290	26.16	10.96	46.00	19.84	AV	N	Pass
6	13.274	45.68	12.85	60.00	14.32	Peak	N	Pass
6**	13.274	28.41	12.85	50.00	21.59	AV	N	Pass

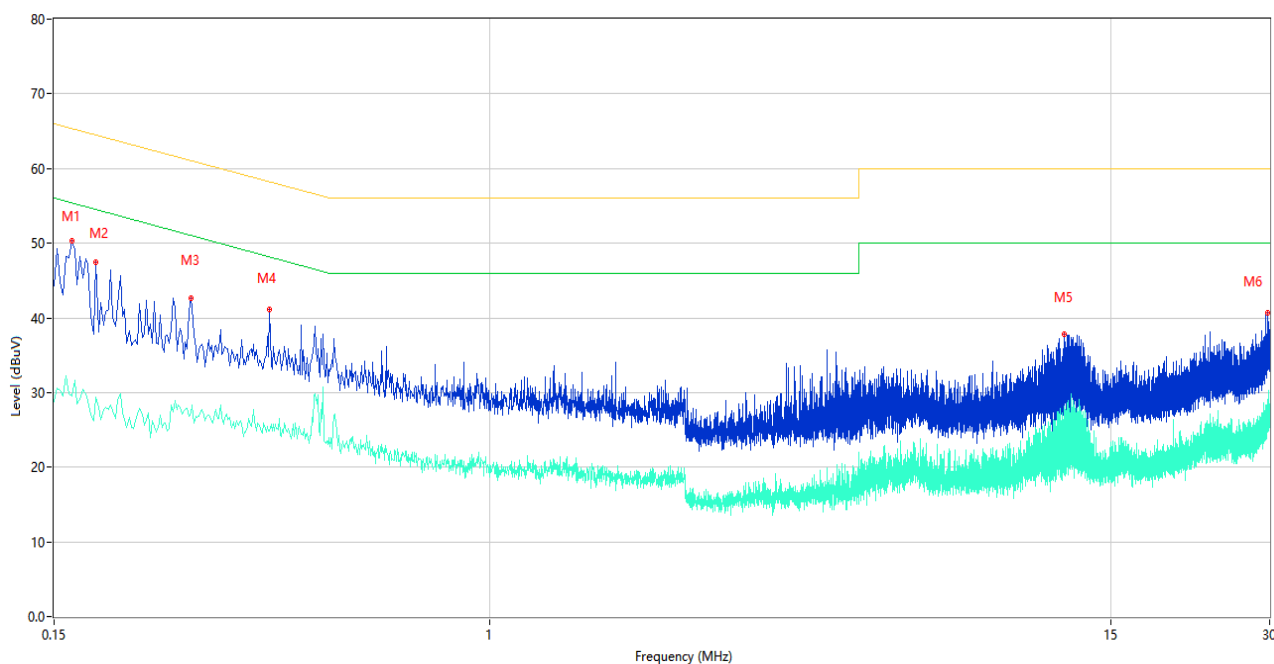
Test Mode 5

3) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.160	52.68	10.10	65.46	12.78	Peak	L	Pass
1**	0.160	30.80	10.10	55.46	24.66	AV	L	Pass
2	0.170	52.28	10.07	64.96	12.68	Peak	L	Pass
2**	0.170	29.47	10.07	54.96	25.49	AV	L	Pass
3	0.196	50.08	10.03	63.78	13.70	Peak	L	Pass
3**	0.196	28.87	10.03	53.78	24.91	AV	L	Pass
4	0.476	40.30	10.42	56.41	16.11	Peak	L	Pass
4**	0.476	30.70	10.42	46.41	15.71	AV	L	Pass
5	5.010	41.70	11.10	60.00	18.30	Peak	L	Pass
5**	5.010	16.70	11.10	50.00	33.30	AV	L	Pass
6	29.922	42.21	17.37	60.00	17.79	Peak	L	Pass
6**	29.922	29.53	17.37	50.00	20.47	AV	L	Pass

4) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.162	50.39	10.09	65.36	14.97	Peak	N	Pass
1**	0.162	29.53	10.09	55.36	25.83	AV	N	Pass
2	0.180	47.45	10.05	64.49	17.04	Peak	N	Pass
2**	0.180	29.36	10.05	54.49	25.13	AV	N	Pass
3	0.272	42.69	10.03	61.06	18.37	Peak	N	Pass
3**	0.272	27.27	10.03	51.06	23.79	AV	N	Pass
4	0.384	41.16	10.41	58.19	17.03	Peak	N	Pass
4**	0.384	24.93	10.41	48.19	23.26	AV	N	Pass
5	12.236	37.80	12.81	60.00	22.20	Peak	N	Pass
5**	12.236	25.79	12.81	50.00	24.21	AV	N	Pass
6	29.778	40.67	17.31	60.00	19.33	Peak	N	Pass
6**	29.778	28.11	17.31	50.00	21.89	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-SZ24C1257-AE-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ24C1257-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ24C1257-AI.PDF”.

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--END OF REPORT--