

TEST REPORT

Applicant: INFINIX MOBILITY LIMITED
Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL
CENTRE 19-25 SHAN MEI STREET FOTAN NT
HONGKONG
Equipment Type: Mobile phone
Model Name: X6882
Brand Name: Infinix
FCC ID: 2AIZN-YY5-X6882
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Jun. 25, 2024
Test Date: Jun. 26, 2024 - Jul. 12, 2024
Date of Issue: Aug 13, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Zhang Guoxi**Checked by:** Liu Zhenxiang**Approved by:** Tolan Tu

(Testing Director)

*Zhang Guoxi**Liu Zhenxiang**Tolan Tu*

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Aug. 13, 2024</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	INFINIX MOBILITY LIMITED
Address	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

2.2 Manufacturer Information

Manufacturer	INFINIX MOBILITY LIMITED
Address	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile phone
Model Name Under Test	X6882
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	N/A
	Model No.	BL-5ABX
	Serial No.	N/A
	Capacity	Rated: 4900mAh/18.97Wh Typical: 5000mAh/19.35Wh
	Rated Voltage	3.87 V
	Limit Charge Voltage	4.45 V
Ancillary Equipment 2	Adapter 1	
	Brand Name	N/A
	Model No.	U180XSA
	Rated Input	100-240V ~ 50/60Hz, 0.6A
	Rated Output	5.0V $\overline{=}$ 2.4A or 7.5V $\overline{=}$ 2.4A 18.0W Max
	Manufacturer	JIANGSU CHENYANG ELECTRON CO LTD
Ancillary Equipment 3	Adapter 2	
	Brand Name	N/A
	Model No.	U180XSA
	Rated Input	100-240V ~ 50/60Hz, 0.6A
	Rated Output	5.0V $\overline{=}$ 2.4A or 7.5V $\overline{=}$ 2.4A 18.0W Max
	Manufacturer	Guiyang Joetide Electronics Co., Ltd
Ancillary Equipment 4	USB Cable	
	Length (Approx.)	1.0m
Ancillary Equipment 5	Headset	
	Length (Approx.)	1.2m
Note: All adapters are tested, only the worst data of U180XSA (JIANGSU CHENYANG ELECTRON CO LTD) shown in this report.		

2.5 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS 850/1900 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network FDD LTE Band 2/4/5/7/12/13/17/25/26/66 TDD LTE Band 38/41 LTE CA Uplink (UL): CA_2C, CA_5B, CA_7C, CA_38C, CA_41C, CA_66C Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40) and 802.11ac(VHT20/40/80) GPS, GLONASS, BDS, Galileo, SBAS, NFC, 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	--

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
Wireless Communications Test Set	R&S	CMW500	102318	N/A	Cal. Due 2025.05.08	☒
Laptop	Lenovo	ThinkPad E495	N/A	N/A	N/A	☒
Laptop	Apple	N/A	N/A	N/A	N/A	☒
Data connector	UGREEN	40702	N/A	N/A	N/A	☒
USB disk	Sandisk	DTMC3G2	N/A	N/A	64G	☒
TF Card	SAMSUNG	MB-MD256KA	N/A	N/A	256G	☒
Type-C Headset	OPPO	MH156	N/A	1.12m	N/A	☒

4.2 Test Configurations

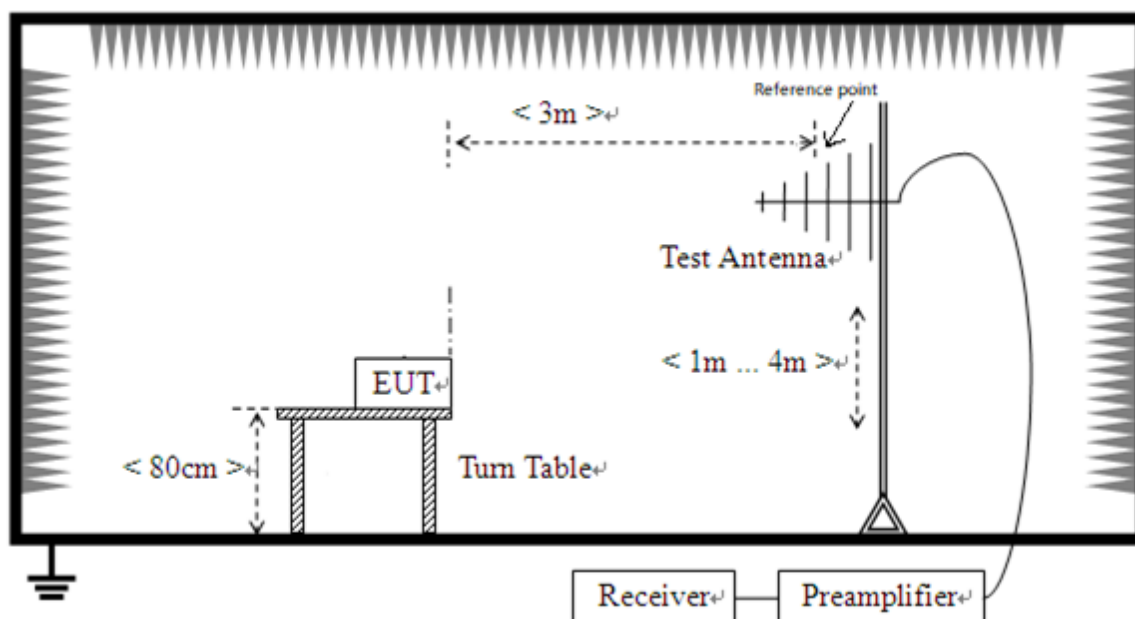
All test modes of EUT are listed in the table below.

Test Mode Configuration	Description
Mode 1	<u>The Standby 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 Rear 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 USB Test Mode</u> EUT + USB Cable + Battery + Laptop + Headset + 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

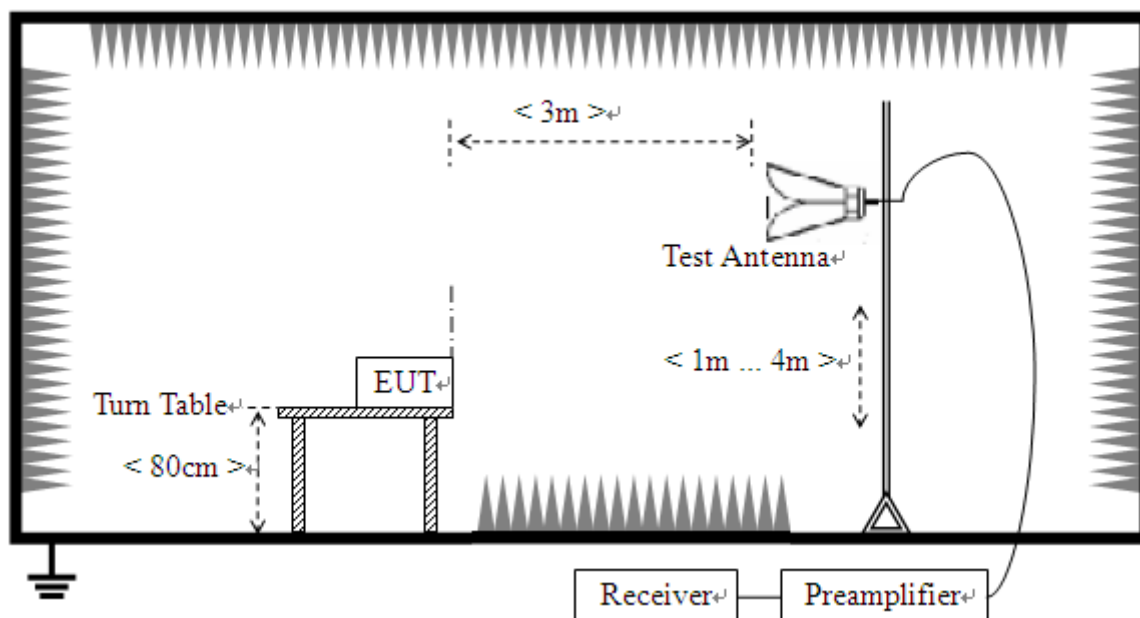
Test Case	Test Mode Configuration	Worst Mode
Radiated Emission	Mode 1~Mode 7	2, 5
Conducted Emission, AC Ports	Mode 1~Mode 5	3, 5
Note: All operation modes were tested, but only test data of the worst mode was presented in this report.		

4.3 Test Setups

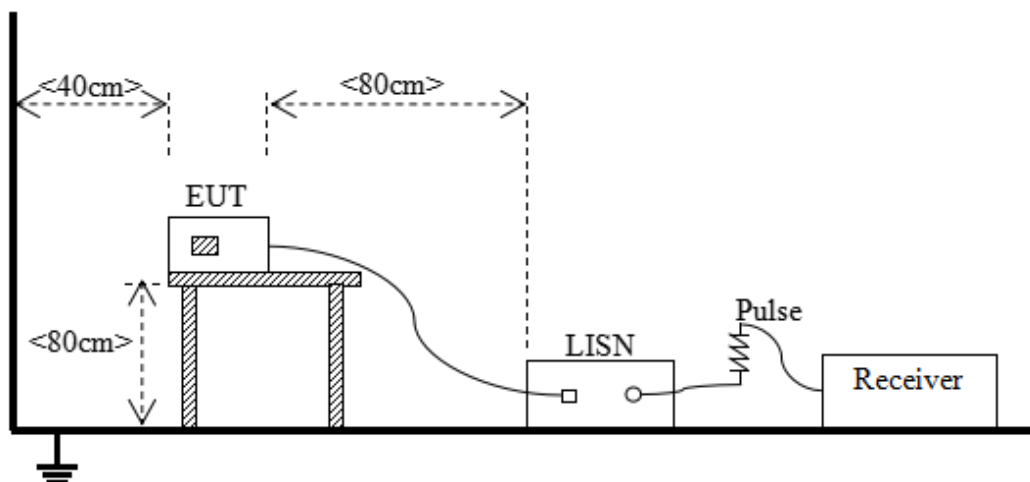
Test Setup 1



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

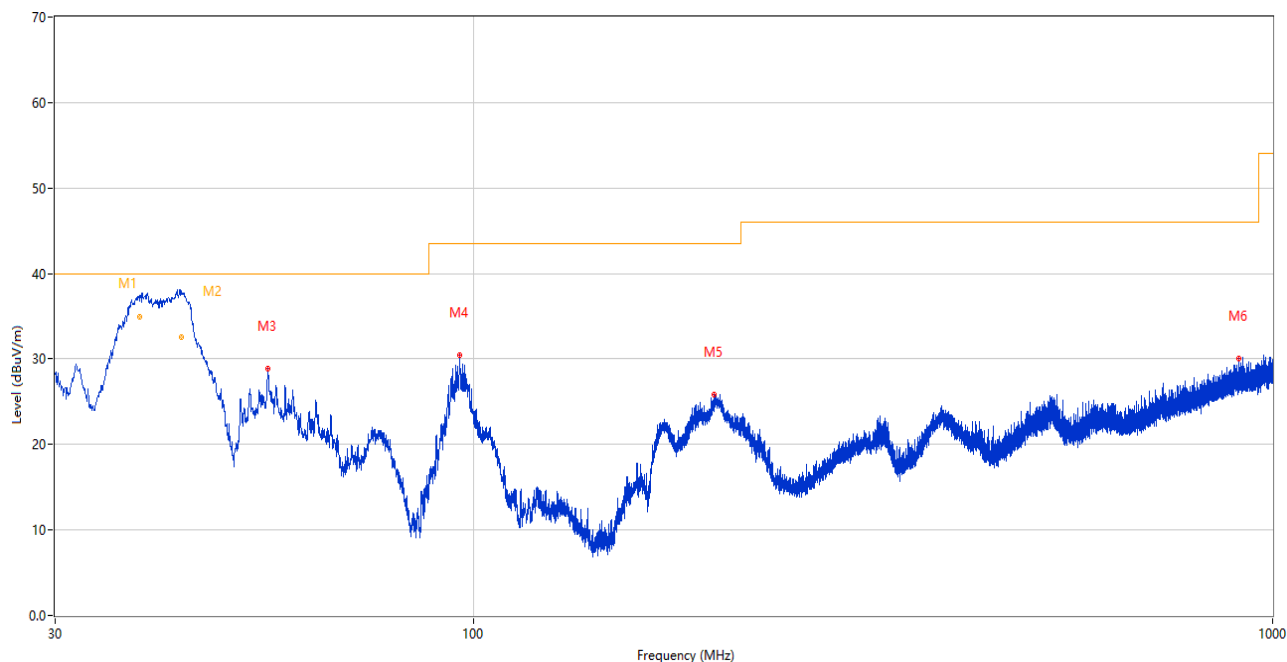
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: 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.	S06	Temperature	23.7℃
Humidity	42%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2024.06.27

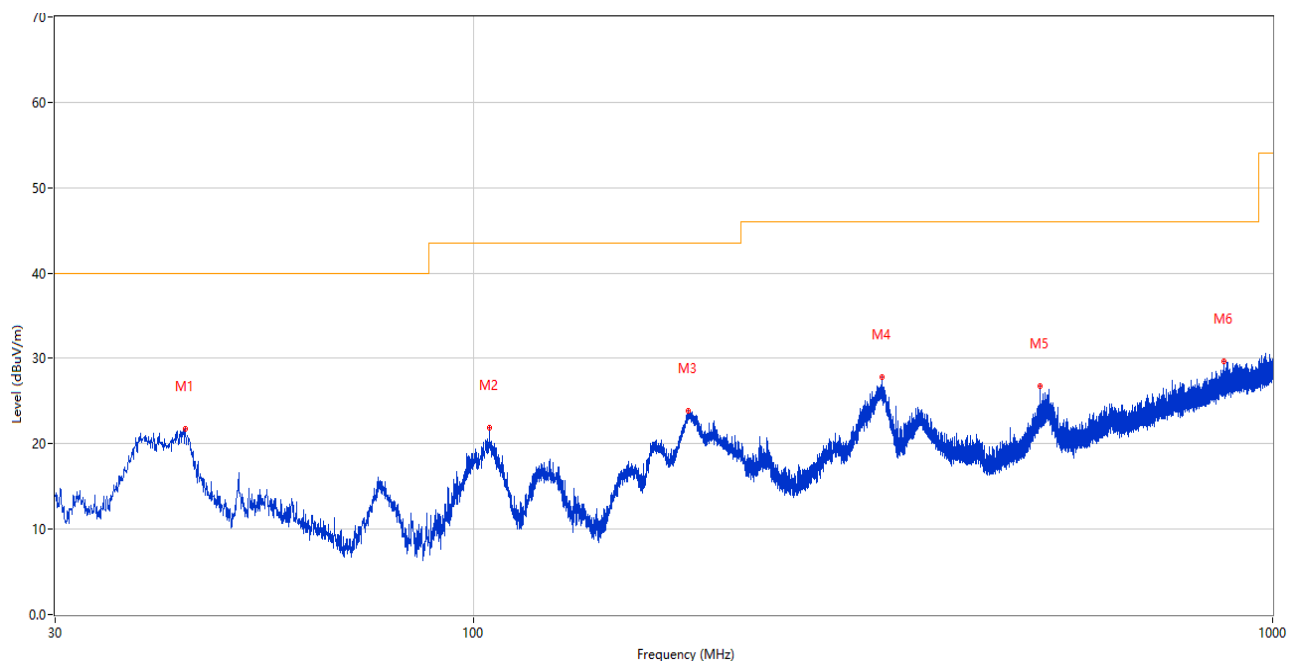
Test Mode 2

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	38.315	40.16	-27.08	40.0	-0.16	Peak	212.00	106	Vertical	N/A
1*	38.315	34.96	-27.08	40.0	5.04	QP	212.00	106	Vertical	Pass
2	43.208	36.85	-25.80	40.0	3.15	Peak	189.00	100	Vertical	N/A
2*	43.208	32.60	-25.80	40.0	7.40	QP	189.00	100	Vertical	Pass
3	55.414	28.93	-25.94	40.0	11.07	Peak	79.00	100	Vertical	Pass
4	96.251	30.41	-27.33	43.5	13.09	Peak	90.00	100	Vertical	Pass
5	200.041	25.79	-26.48	43.5	17.71	Peak	351.00	100	Vertical	Pass
6	906.153	30.05	-9.86	46.0	15.95	Peak	349.00	100	Vertical	Pass

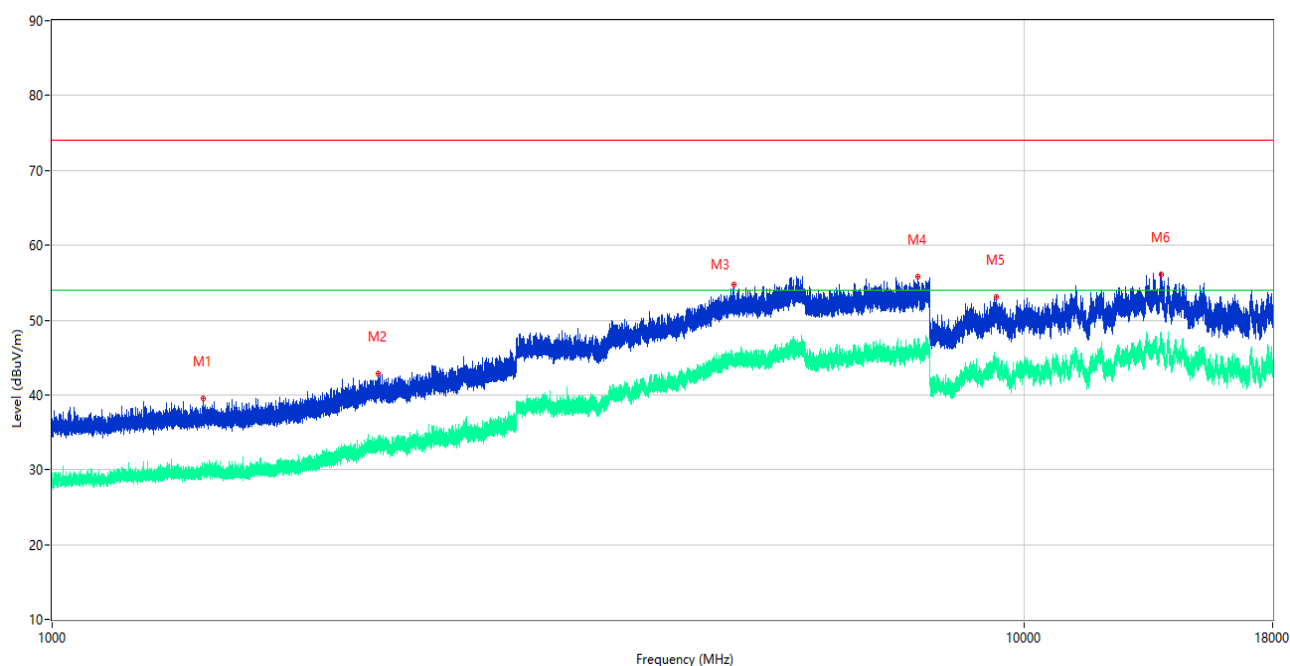
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	43.629	21.81	-25.73	40.0	18.19	Peak	197.00	100	Horizontal	Pass
2	104.787	21.87	-26.52	43.5	21.63	Peak	181.00	200	Horizontal	Pass
3	185.976	23.84	-27.96	43.5	19.66	Peak	31.00	200	Horizontal	Pass
4	324.298	27.79	-22.99	46.0	18.21	Peak	358.00	100	Horizontal	Pass
5	511.556	26.79	-18.39	46.0	19.21	Peak	63.00	200	Horizontal	Pass
6	869.972	29.70	-10.44	46.0	16.30	Peak	211.00	200	Horizontal	Pass

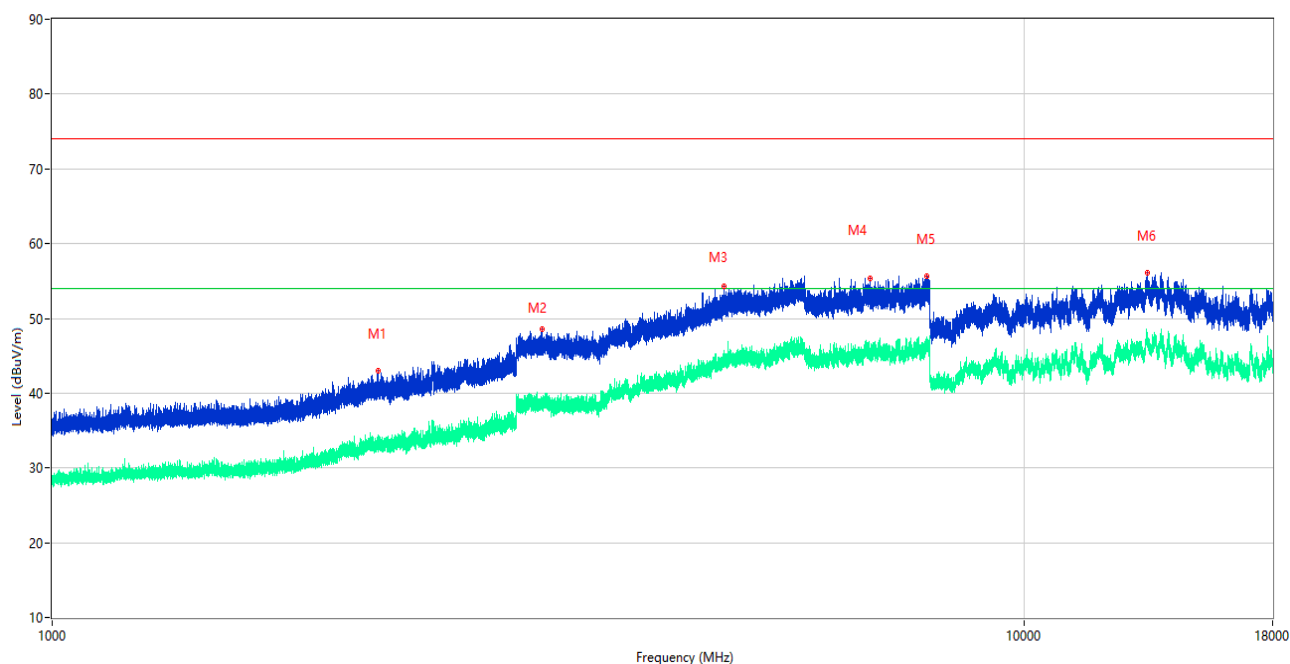
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	9168-00867	2022.04.12	2025.04.11	☒
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2021.08.19	2024.08.18	☒
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	1429.900	39.56	-15.79	74.0	34.44	Peak	93.00	100	Vertical	Pass
1**	1429.900	29.31	-15.79	54.0	24.69	AV	93.00	100	Vertical	Pass
2	2165.900	42.87	-12.17	74.0	31.13	Peak	21.00	100	Vertical	Pass
2**	2165.900	33.42	-12.17	54.0	20.58	AV	21.00	100	Vertical	Pass
3	5022.750	54.78	1.55	74.0	19.22	Peak	344.00	100	Vertical	Pass
3**	5022.750	44.49	1.55	54.0	9.51	AV	344.00	100	Vertical	Pass
4	7769.000	55.77	2.75	74.0	18.23	Peak	1.00	100	Vertical	Pass
4**	7769.000	45.65	2.75	54.0	8.35	AV	1.00	100	Vertical	Pass
5	9355.000	53.05	2.10	74.0	20.95	Peak	63.00	100	Vertical	Pass
5**	9355.000	44.68	2.10	54.0	9.32	AV	63.00	100	Vertical	Pass
6	13843.500	56.14	5.26	74.0	17.86	Peak	50.00	100	Vertical	Pass
6**	13843.500	46.19	5.26	54.0	7.81	AV	50.00	100	Vertical	Pass

4) Test Antenna Horizontal, 1 GHz – 18 GHz



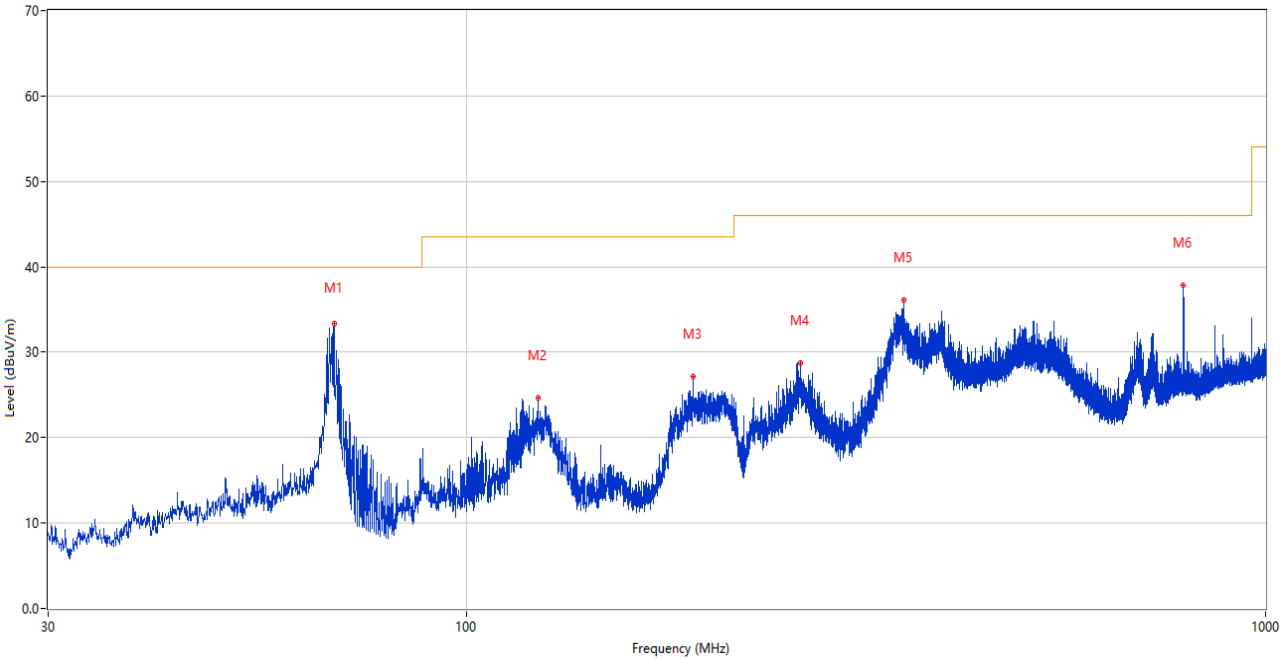
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2163.600	43.01	-12.16	74.0	30.99	Peak	5.00	100	Horizontal	Pass
1**	2163.600	33.18	-12.16	54.0	20.82	AV	5.00	100	Horizontal	Pass
2	3187.500	48.50	-3.94	74.0	25.50	Peak	360.00	100	Horizontal	Pass
2**	3187.500	38.71	-3.94	54.0	15.29	AV	360.00	100	Horizontal	Pass
3	4910.500	54.25	2.19	74.0	19.75	Peak	208.00	100	Horizontal	Pass
3**	4910.500	44.41	2.19	54.0	9.59	AV	208.00	100	Horizontal	Pass
4	6934.250	55.35	1.36	74.0	18.65	Peak	360.00	100	Horizontal	Pass
4**	6934.250	44.95	1.36	54.0	9.05	AV	360.00	100	Horizontal	Pass
5	7925.750	55.58	3.05	74.0	18.42	Peak	34.00	100	Horizontal	Pass
5**	7925.750	46.18	3.05	54.0	7.82	AV	34.00	100	Horizontal	Pass
6	13372.000	56.12	5.09	74.0	17.88	Peak	127.00	100	Horizontal	Pass
6**	13372.000	47.18	5.09	54.0	6.82	AV	127.00	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	2023.09.05	2024.09.04	☒
Amplifier (1-12GHz)	Advanced Microwave	WLA652A	1740103	2023.12.05	2024.12.04	☒
Amplifier (0.8-21GHz)	Mini-Circuits	ZVA-213-S+	225321316	2023.12.05	2024.12.04	☒
Test Antenna- Horn	SCHWARZB ECK	BBHA 9120D	01917	2022.06.09	2025.06.08	☒
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2021.08.19	2024.08.18	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

Sample No.	S06	Temperature	23.7℃
Humidity	42%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2024.07.11

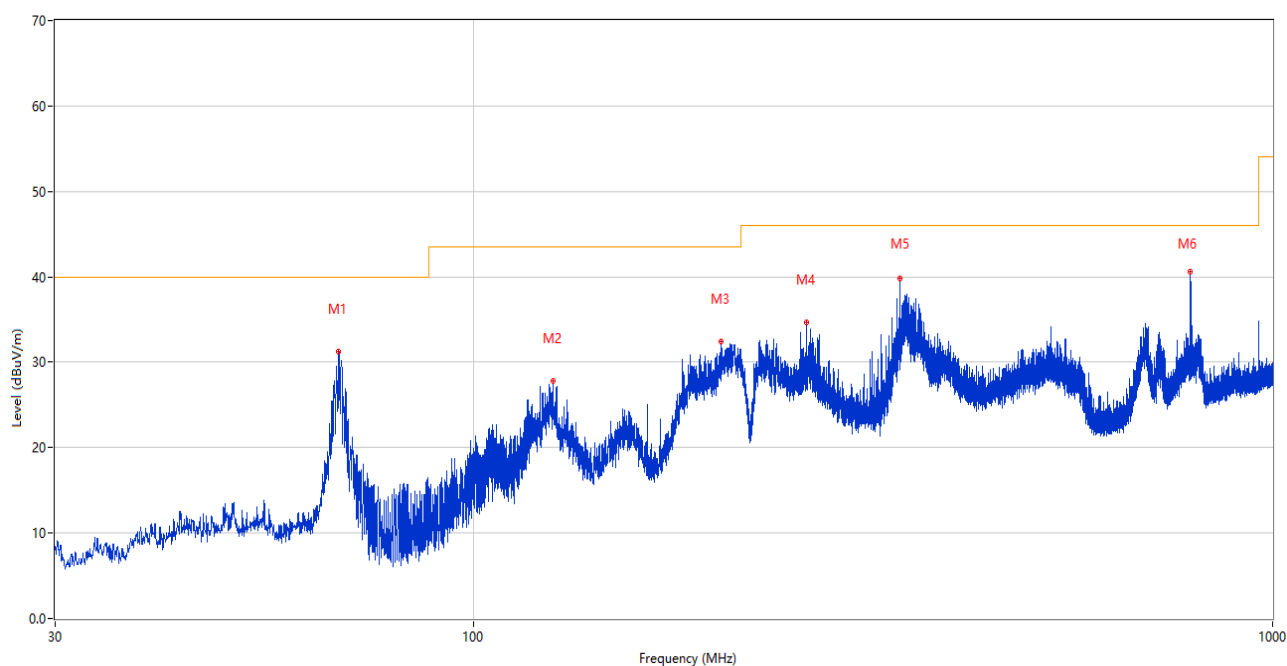
Test Mode 5

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	68.364	33.30	-28.69	40.0	6.70	Peak	145.00	100	Vertical	Pass
2	123.120	24.61	-28.97	43.5	18.89	Peak	282.00	100	Vertical	Pass
3	192.475	27.20	-27.10	43.5	16.30	Peak	180.00	100	Vertical	Pass
4	261.636	28.74	-24.64	46.0	17.26	Peak	358.00	200	Vertical	Pass
5	352.477	36.13	-21.87	46.0	9.87	Peak	137.00	100	Vertical	Pass
6	789.364	37.87	-12.22	46.0	8.13	Peak	222.00	200	Vertical	Pass
5	200.041	25.79	-26.48	43.5	17.71	Peak	351.00	100	Vertical	Pass
6	906.153	30.05	-9.86	46.0	15.95	Peak	349.00	100	Vertical	Pass

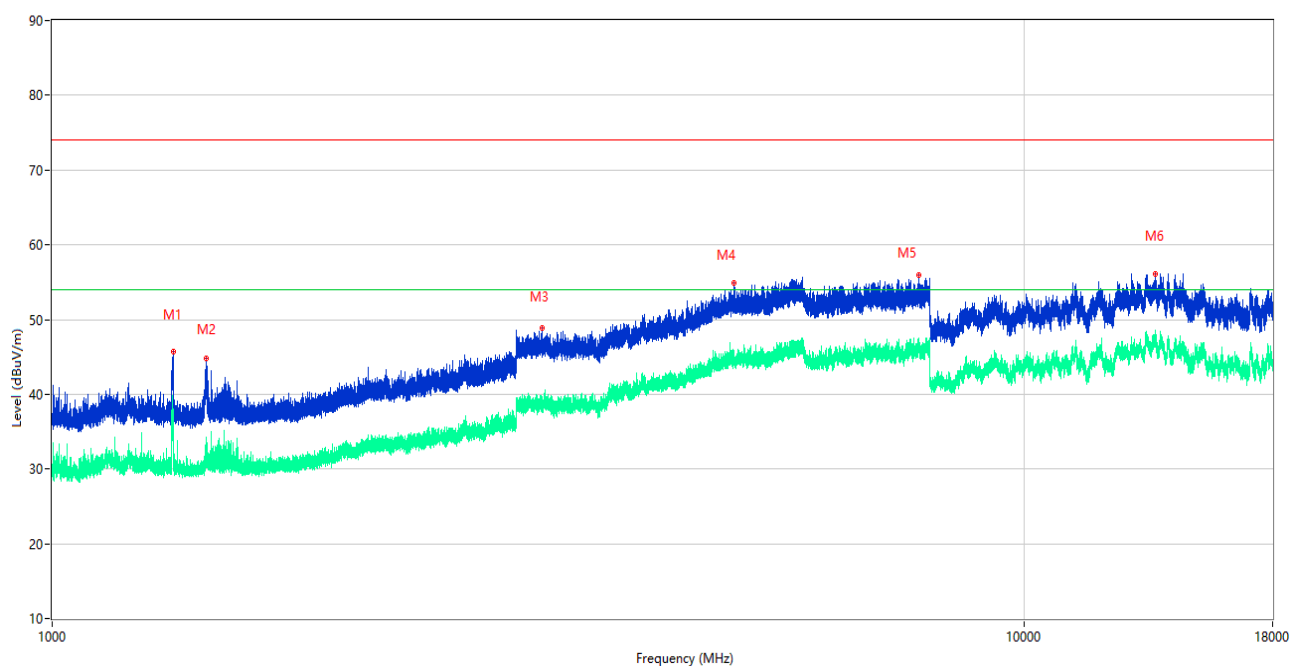
6) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	67.927	31.20	-28.49	40.0	8.80	Peak	0.00	100	Horizontal	Pass
2	125.787	27.79	-29.41	43.5	15.71	Peak	48.00	200	Horizontal	Pass
3	204.066	32.41	-26.56	43.5	11.09	Peak	140.00	100	Horizontal	Pass
4	260.957	34.62	-24.58	46.0	11.38	Peak	50.00	100	Horizontal	Pass
5	341.855	39.79	-22.28	46.0	6.21	Peak	70.00	100	Horizontal	Pass
6	789.073	40.59	-12.22	46.0	5.41	Peak	14.00	100	Horizontal	Pass

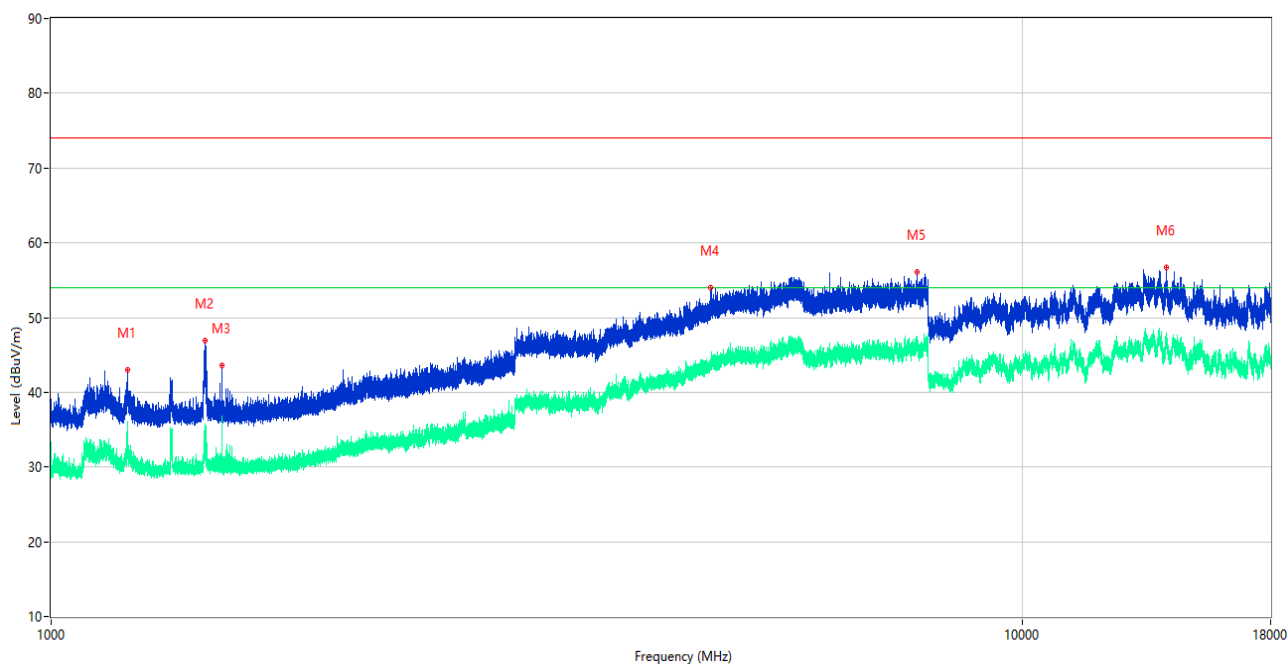
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	9168-00867	2022.04.12	2025.04.11	☒
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2021.08.19	2024.08.18	☒
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	1332.000	45.64	-16.09	74.0	28.36	Peak	201.00	100	Vertical	Pass
1**	1332.000	36.56	-16.09	54.0	17.44	AV	201.00	100	Vertical	Pass
2	1439.700	44.87	-15.97	74.0	29.13	Peak	248.00	100	Vertical	Pass
2**	1439.700	33.72	-15.97	54.0	20.28	AV	248.00	100	Vertical	Pass
3	3189.500	48.81	-3.98	74.0	25.19	Peak	221.00	100	Vertical	Pass
3**	3189.500	38.70	-3.98	54.0	15.30	AV	221.00	100	Vertical	Pass
4	5029.500	54.91	1.47	74.0	19.09	Peak	1.00	100	Vertical	Pass
4**	5029.500	44.57	1.47	54.0	9.43	AV	1.00	100	Vertical	Pass
5	7786.250	55.92	3.12	74.0	18.08	Peak	0.00	100	Vertical	Pass
5**	7786.250	46.82	3.12	54.0	7.18	AV	0.00	100	Vertical	Pass
6	13634.000	56.17	5.00	74.0	17.83	Peak	360.00	100	Vertical	Pass
6**	13634.000	46.89	5.00	54.0	7.11	AV	360.00	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	1199.300	43.03	-16.23	74.0	30.97	Peak	72.00	100	Horizontal	Pass
1**	1199.300	32.61	-16.23	54.0	21.39	AV	72.00	100	Horizontal	Pass
2	1440.100	46.85	-15.96	74.0	27.15	Peak	145.00	100	Horizontal	Pass
2**	1440.100	34.96	-15.96	54.0	19.04	AV	145.00	100	Horizontal	Pass
3	1500.000	43.67	-16.10	74.0	30.33	Peak	297.00	100	Horizontal	Pass
3**	1500.000	29.97	-16.10	54.0	24.03	AV	297.00	100	Horizontal	Pass
4	4770.250	54.06	1.14	74.0	19.94	Peak	158.00	100	Horizontal	Pass
4**	4770.250	43.17	1.14	54.0	10.83	AV	158.00	100	Horizontal	Pass
5	7791.000	56.07	3.06	74.0	17.93	Peak	69.00	100	Horizontal	Pass
5**	7791.000	47.21	3.06	54.0	6.79	AV	69.00	100	Horizontal	Pass
6	14051.500	56.70	5.41	74.0	17.30	Peak	309.00	100	Horizontal	Pass
6**	14051.500	46.72	5.41	54.0	7.28	AV	309.00	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	2023.09.05	2024.09.04	☒
Amplifier (1-12GHz)	Advanced Microwave	WLA652A	1740103	2023.12.05	2024.12.04	☒
Amplifier (0.8-21GHz)	Mini-Circuits	ZVA-213-S+	225321316	2023.12.05	2024.12.04	☒
Test Antenna- Horn	SCHWARZB ECK	BBHA 9120D	01917	2022.06.09	2025.06.08	☒
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2021.08.19	2024.08.18	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

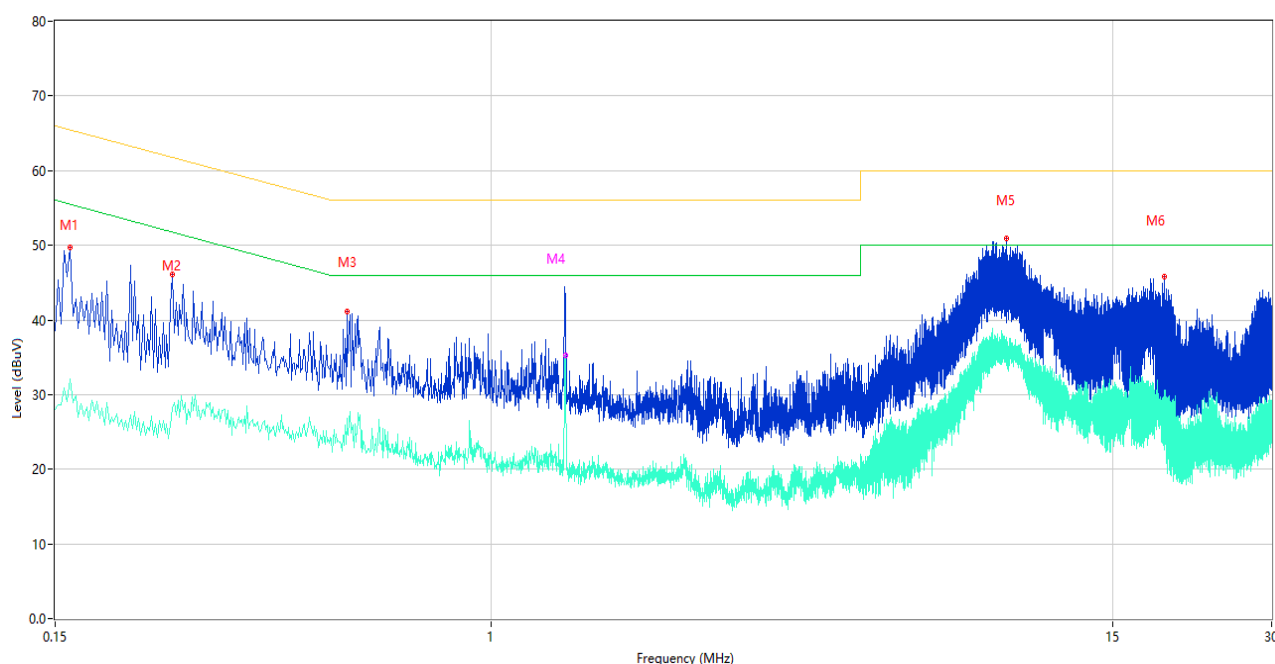
A.2 Conducted Emission, AC Ports

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 (230 VAC, 60 Hz) shown here.

Sample No.	S06	Temperature	23.7°C
Humidity	42%RH	Pressure	101kPa
Test Engineer	Yang Yang	Test Date	2024.07.11

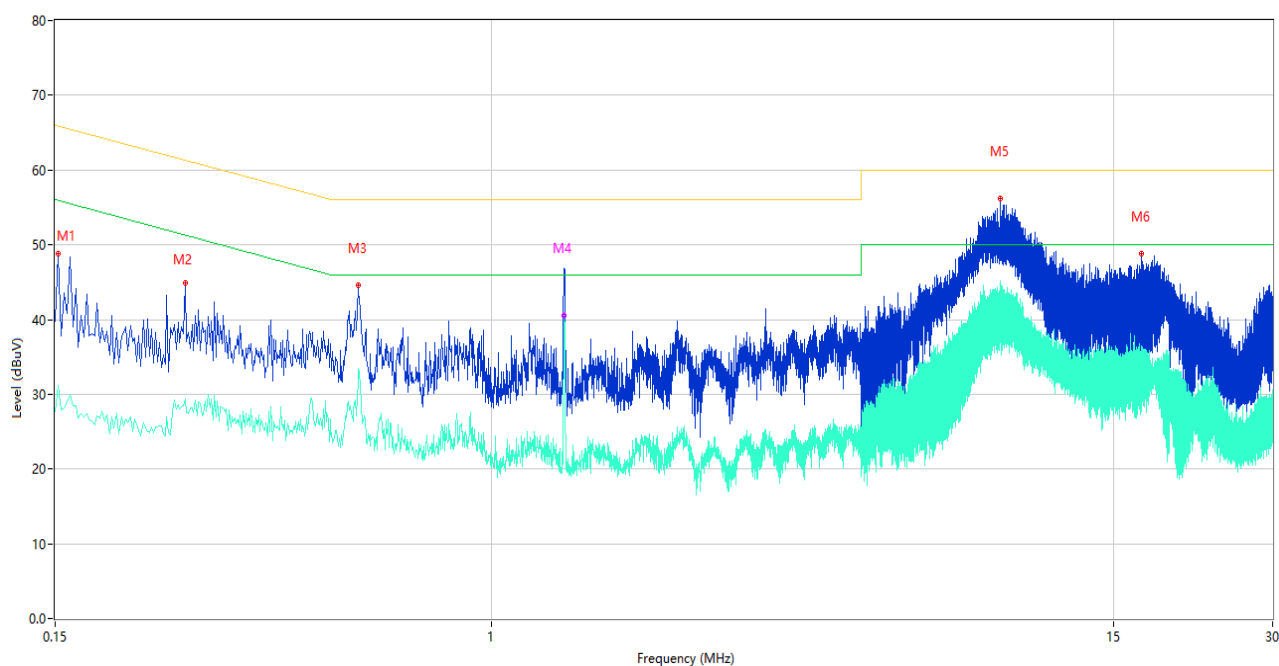
Test Mode 3

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.160	49.68	10.11	65.46	15.78	Peak	L	Pass
1**	0.160	32.11	10.11	55.46	23.35	AV	L	Pass
2	0.250	46.16	10.07	61.76	15.60	Peak	L	Pass
2**	0.250	28.11	10.07	51.76	23.65	AV	L	Pass
3	0.534	41.10	10.46	56.00	14.90	Peak	L	Pass
3**	0.534	26.82	10.46	46.00	19.18	AV	L	Pass
4	1.384	42.87	10.79	56.00	13.13	Peak	L	Pass
4**	1.384	35.31	10.79	46.00	10.69	AV	L	Pass
5	9.446	50.99	11.33	60.00	9.01	Peak	L	Pass
5**	9.446	35.16	11.33	50.00	14.84	AV	L	Pass
6	18.810	45.79	12.97	60.00	14.21	Peak	L	Pass
6**	18.810	30.21	12.97	50.00	19.79	AV	L	Pass

2) AC Ports - N Phase

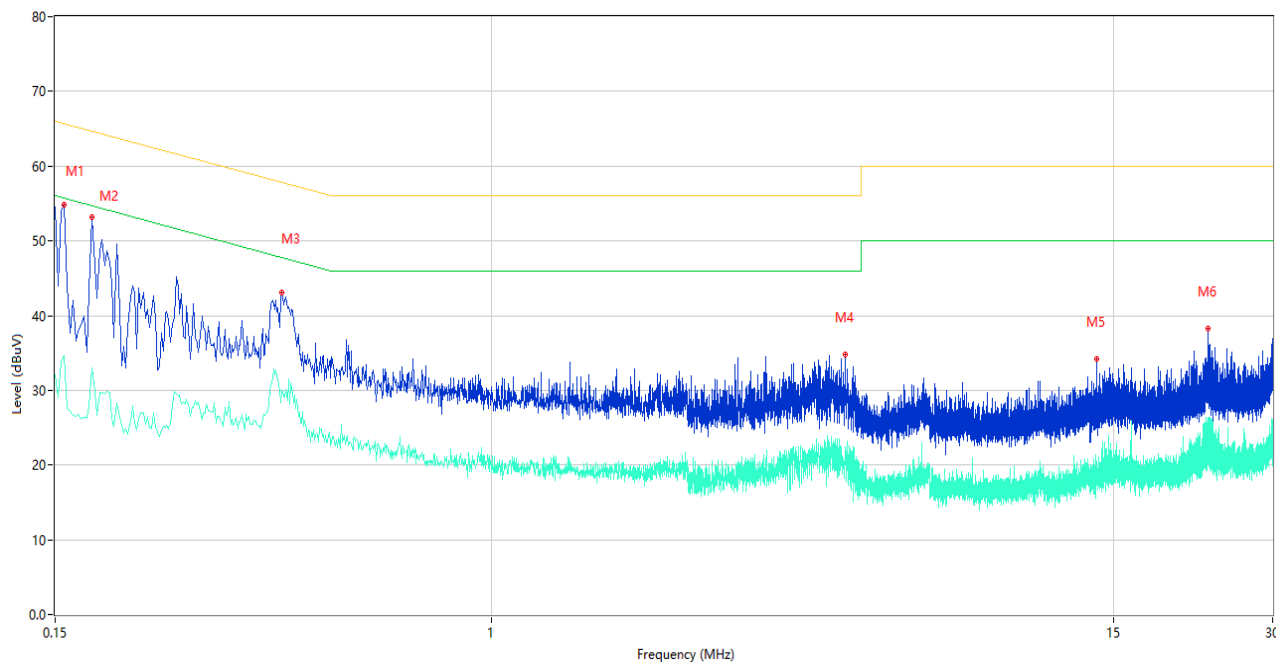


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	48.75	10.12	65.89	17.14	Peak	N	Pass
1**	0.152	31.15	10.12	55.89	24.74	AV	N	Pass
2	0.264	44.95	10.08	61.30	16.35	Peak	N	Pass
2**	0.264	29.31	10.08	51.30	21.99	AV	N	Pass
3	0.560	44.57	10.55	56.00	11.43	Peak	N	Pass
3**	0.560	31.79	10.55	46.00	14.21	AV	N	Pass
4	1.376	46.93	10.74	56.00	9.07	Peak	N	Pass
4**	1.376	40.50	10.74	46.00	5.50	AV	N	Pass
5	9.162	56.19	11.36	60.00	3.81	Peak	N	Pass
5**	9.162	44.70	11.36	50.00	5.30	AV	N	Pass
6	16.956	48.74	12.78	60.00	11.26	Peak	N	Pass
6**	16.956	36.53	12.78	50.00	13.47	AV	N	Pass

Sample No.	S06	Temperature	23.7°C
Humidity	42%RH	Pressure	101kPa
Test Engineer	Yang Yang	Test Date	2024.07.11

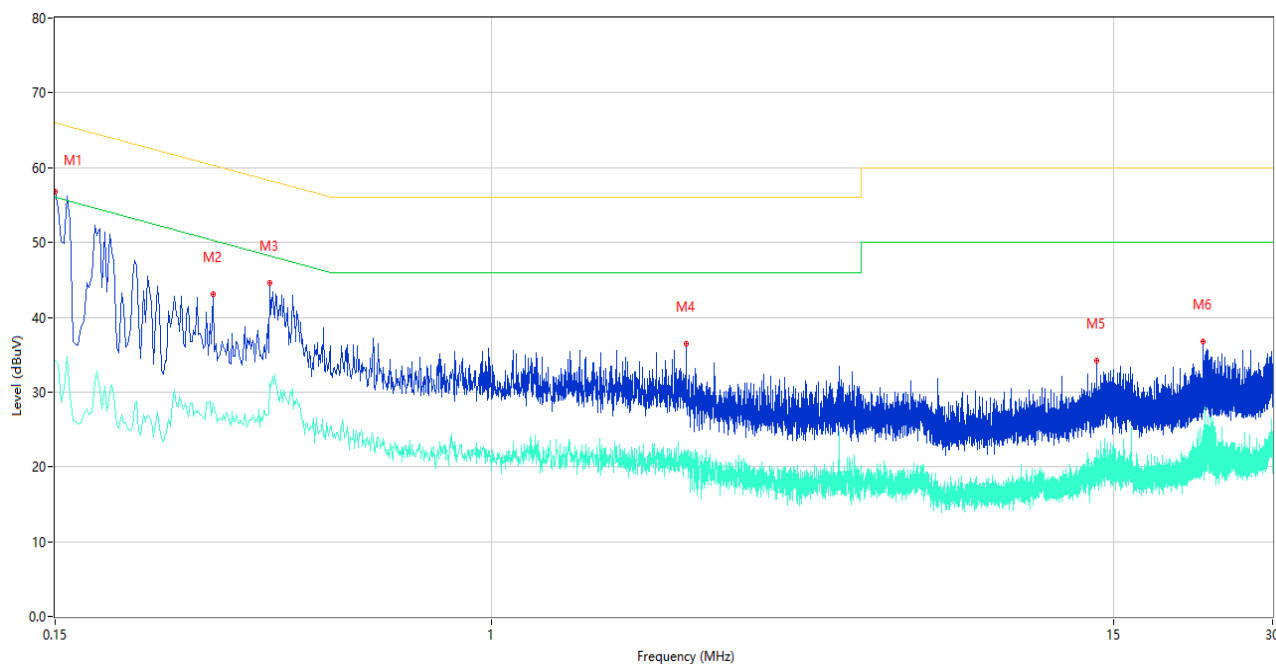
Test Mode 5

3) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.156	54.91	10.11	65.67	10.76	Peak	L	Pass
1**	0.156	34.63	10.11	55.67	21.04	AV	L	Pass
2	0.176	53.20	10.09	64.67	11.47	Peak	L	Pass
2**	0.176	33.03	10.09	54.67	21.64	AV	L	Pass
3	0.402	43.14	10.68	57.81	14.67	Peak	L	Pass
3**	0.402	29.99	10.68	47.81	17.82	AV	L	Pass
4	4.666	34.80	10.64	56.00	21.20	Peak	L	Pass
4**	4.666	20.71	10.64	46.00	25.29	AV	L	Pass
5	13.972	34.24	12.66	60.00	25.76	Peak	L	Pass
5**	13.972	18.48	12.66	50.00	31.52	AV	L	Pass
6	22.678	38.23	13.44	60.00	21.77	Peak	L	Pass
6**	22.678	26.21	13.44	50.00	23.79	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	56.76	10.12	66.00	9.24	Peak	N	Pass
1**	0.150	34.24	10.12	56.00	21.76	AV	N	Pass
2	0.298	43.08	10.09	60.30	17.22	Peak	N	Pass
2**	0.298	28.54	10.09	50.30	21.76	AV	N	Pass
3	0.382	44.60	10.43	58.24	13.64	Peak	N	Pass
3**	0.382	31.14	10.43	48.24	17.10	AV	N	Pass
4	2.340	36.45	10.57	56.00	19.55	Peak	N	Pass
4**	2.340	21.52	10.57	46.00	24.48	AV	N	Pass
5	13.970	34.19	12.67	60.00	25.81	Peak	N	Pass
5**	13.970	19.29	12.67	50.00	30.71	AV	N	Pass
6	22.204	36.77	13.25	60.00	23.23	Peak	N	Pass
6**	22.204	23.20	13.25	50.00	26.80	AV	N	Pass

Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2023.09.05	2024.09.04	☒
LISN	SCHWARZB ECK	NSLK 8127	8127-687	2024.05.09	2025.05.08	☒
ISN	TESEQ	ISN T800	34449	2023.11.10	2024.11.09	☐
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-SZ2461006-AE-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2461006-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2461006-AI.PDF”.

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--END OF REPORT--