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:	X6880
Brand Name:	Infinix
FCC ID:	2AIZN-YYS-X6880
Test Standard:	47 CFR Part 15 Subpart B ANSI C63.4-2014
Sample Arrival Date:	Jun. 27, 2024
Test Date:	Jun. 28, 2024 - Jul. 31, 2024
Date of Issue:	Aug. 13, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Xin Liao **Checked by:** Liu Zhenxiang **Approved by:** Tolan Tu

(Testing Director)

Xin Liao Liu Zhen Xiang Tolan Tu

Revision History

Version	Issue Date	Revisions
Rev. 01	Aug. 13, 2024	Initial Issue

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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	X6880
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-49UX
	Serial No.	N/A
	Capacity	Rated: 4900mAh/19.16Wh Typical: 5000mAhl/19.55Wh
	Rated Voltage	3.91 V
	Limit Charge Voltage	4.50 V
Ancillary Equipment 2	Adapter	
	Brand Name	N/A
	Model No.	U330XSB
	Serial No.	N/A
	Rated Input	100-240V ~ 50/60Hz, 1.5A
	Rated Output	5.0V⎓ 3.0A, 15.0W or 5.0-10.0V⎓ 3.3A or 11.0V⎓ 3.0A, 33.0W MAX
Ancillary Equipment 3	USB Cable	
	Length (Approx.)	1.0m
Ancillary Equipment 4	Headset	
	Length (Approx.)	1.2m

2.5 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EGPRS 850/1900 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network LTE FDD Band 2/4/5/7/12/13/17/25/26/66 LTE TDD 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, FM Receiver, 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 (30 MHz-1 GHz)-966#4	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	☒
SD Card	Samsung	N/A	N/A	N/A	128G	☒
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	MH135	N/A	N/A	1.12m	☒

4.2 Test Configurations

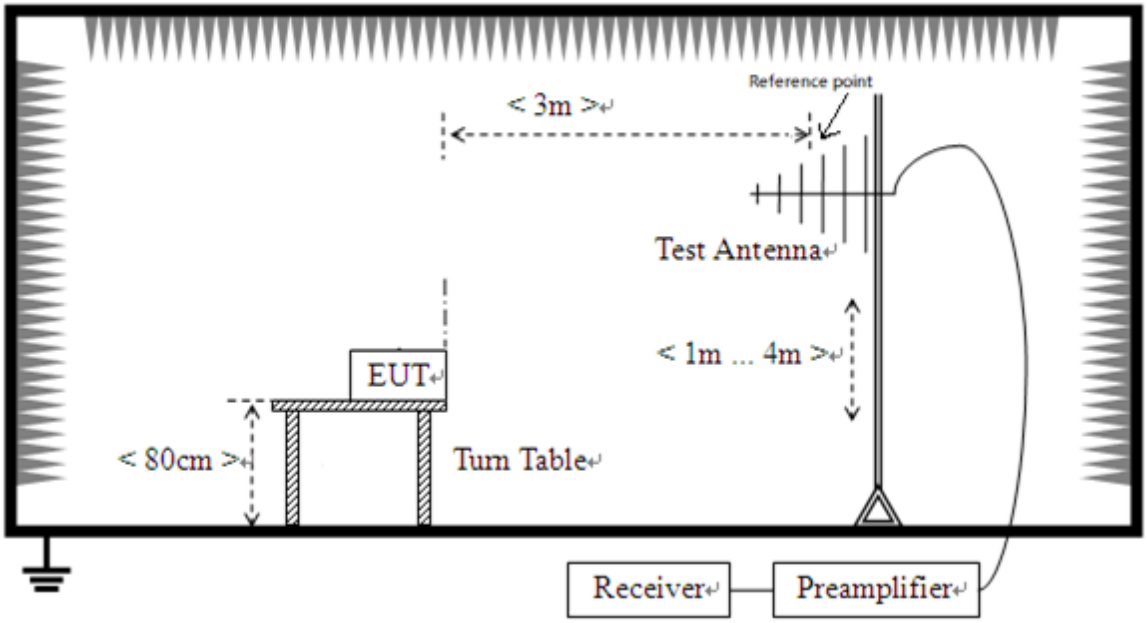
All test modes of EUT are listed in the table below.

Test Mode Configuration	Description
Mode 1	The Charging Test Mode EUT + Adapter + USB Cable + Battery
Mode 2	The Front Camera Test Mode EUT + Adapter + USB Cable + Battery + SD Card
Mode 3	The Back Camera Test Mode EUT + Adapter + USB Cable + Battery + SD Card
Mode 4	The Video Play Test Mode EUT + Adapter + USB Cable + Battery + SD Card
Mode 5	The Video Display Test Mode with internal speaker EUT + Battery + SD Card
Mode 6	The FM Test Mode EUT + Adapter + USB Cable + Battery + SD Card + FM RX
Mode 7	The USB Test Mode EUT + USB Cable + Battery + SD Card + Laptop
Mode 8	The OTG Test Mode EUT + Battery + SD Card + Data connector + USB disk
Mode 9	The Type-C Earphone Test Mode EUT + Battery + SD Card + Type-C Earphone

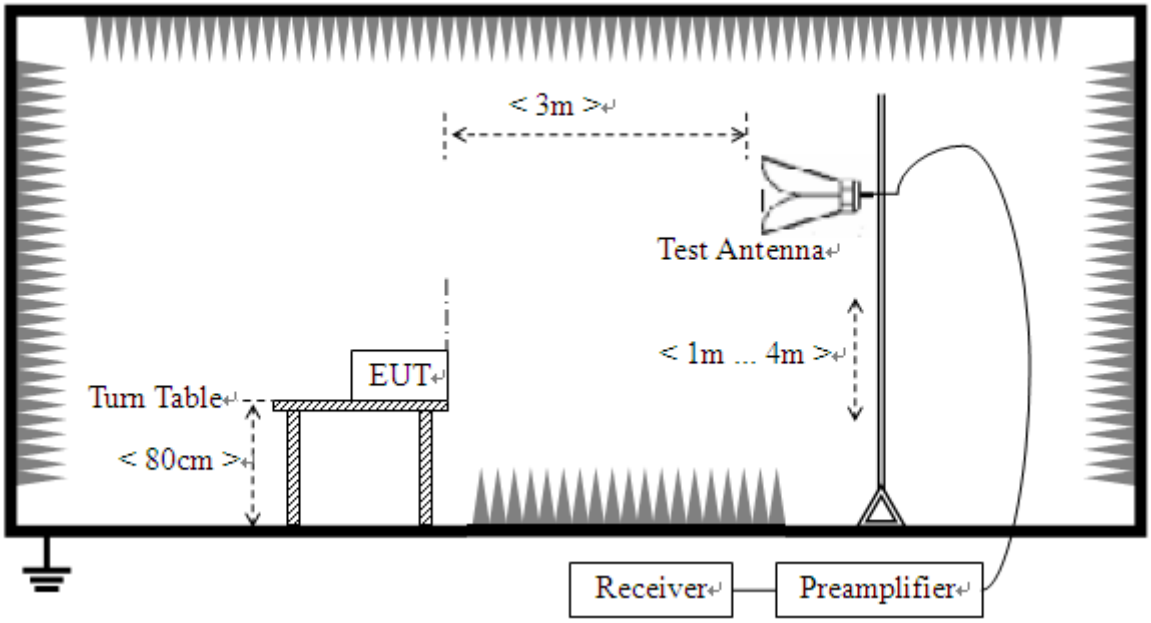
Test Case	Test Mode Configuration	Worst Mode
Radiated Emission	Mode 1~Mode 9	3, 7
Conducted Emission, AC Ports	Mode 1~Mode 7	4, 7
Note: All operation modes were tested, but only test data of the worst mode was presented in this report.		

4.3 Test Setups

Test Setup 1

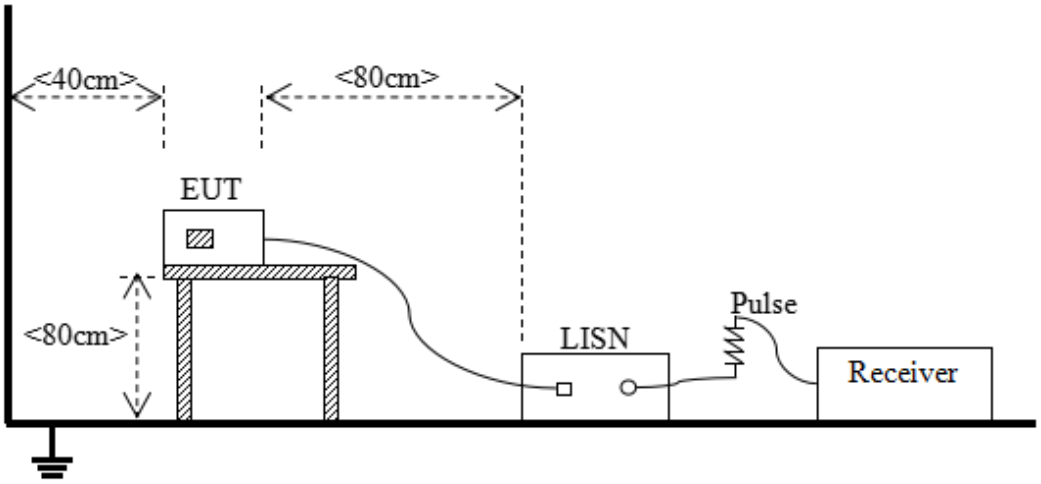


Radiated Emission (30 MHz-1 GHz)



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 (μV/m)	Field Strength (dBμV/m)	Field Strength (dBμV/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 (dBμV/m) = 20*log [Field Strength (μV/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 (μV/m)	Field Strength Average (dBμV/m)	Field Strength Peak (dBμV/m)	Field Strength Average (dBμV/m)	Field Strength Peak (dBμV/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:
$L_{3m} = L_{10m} + 20*\log(d_{10m}/d_{3m})$
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*log(10/3)=60 (dBμV/m).

Highest internal frequency (F_X)	Highest measurement frequency (F_M)
$F_X \leq 108$ MHz	1 GHz
108 MHz $\leq F_X \leq$ 500 MHz	2 GHz
500 MHz $\leq F_X \leq$ 1 GHz	5 GHz
$F_X \geq 1$ 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 ≥ 1 GHz, 100 kHz for f < 1 GHz

VBW ≥ RBW

Sweep = auto

Detector function = peak for f <1 GHz, peak & RMS Average for f ≥ 1 GHz

Trace = max hold

5.1.1.4 Test Result and Test Equipment List

Please refer to ANNEX A.1.

NOTE:

1. Results (dBμV/m) = Reading (dBμV) + 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 (dBμV)	Average (dBμV)
0.15 - 0.50	79	66
0.50 - 30	73	60

Frequency range (MHz)	Class B	
	Quasi-peak (dBμV)	Average (dBμV)
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 μH 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 ≥ RBW

Sweep = 10ms

Detector function =peak & Average

Trace = max hold

5.1.2.4 Test Result and Test Equipment List

Please refer to ANNEX A.2.

NOTE:

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

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

2. Factor = Insertion loss + Cable loss

3. Margin = Limit - Results

ANNEX A TEST RESULTS

A.1 Radiated Emission

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

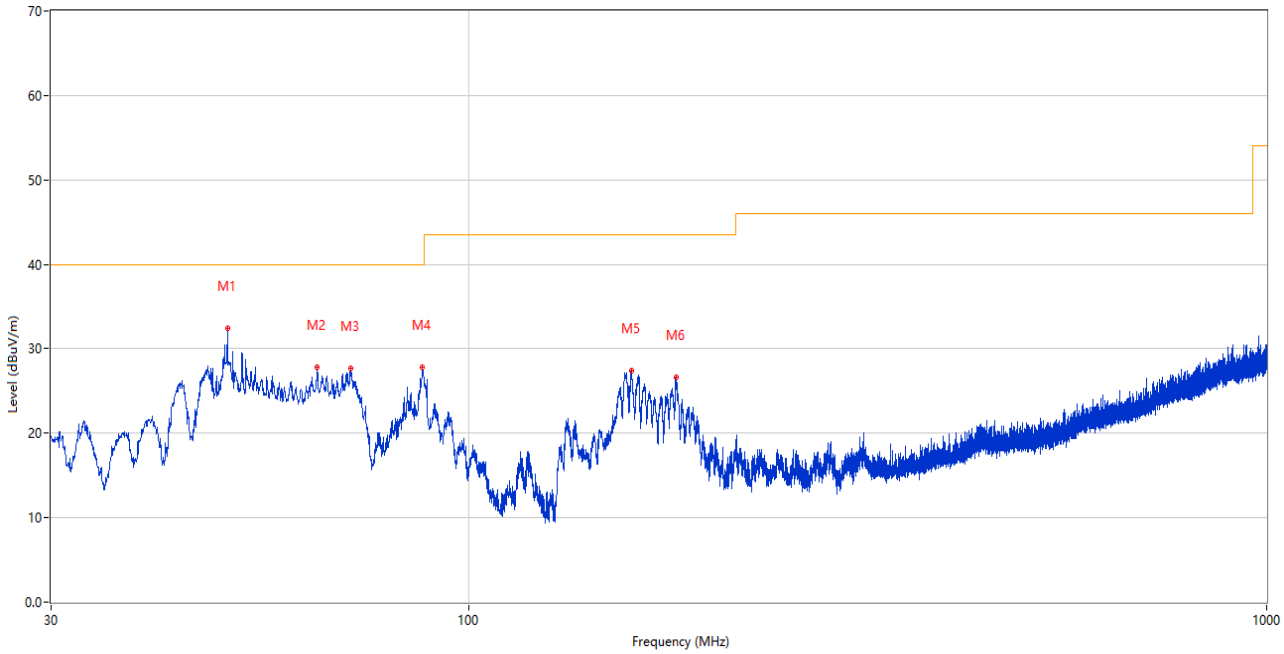
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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℃
Humidity	49%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2024.06.29

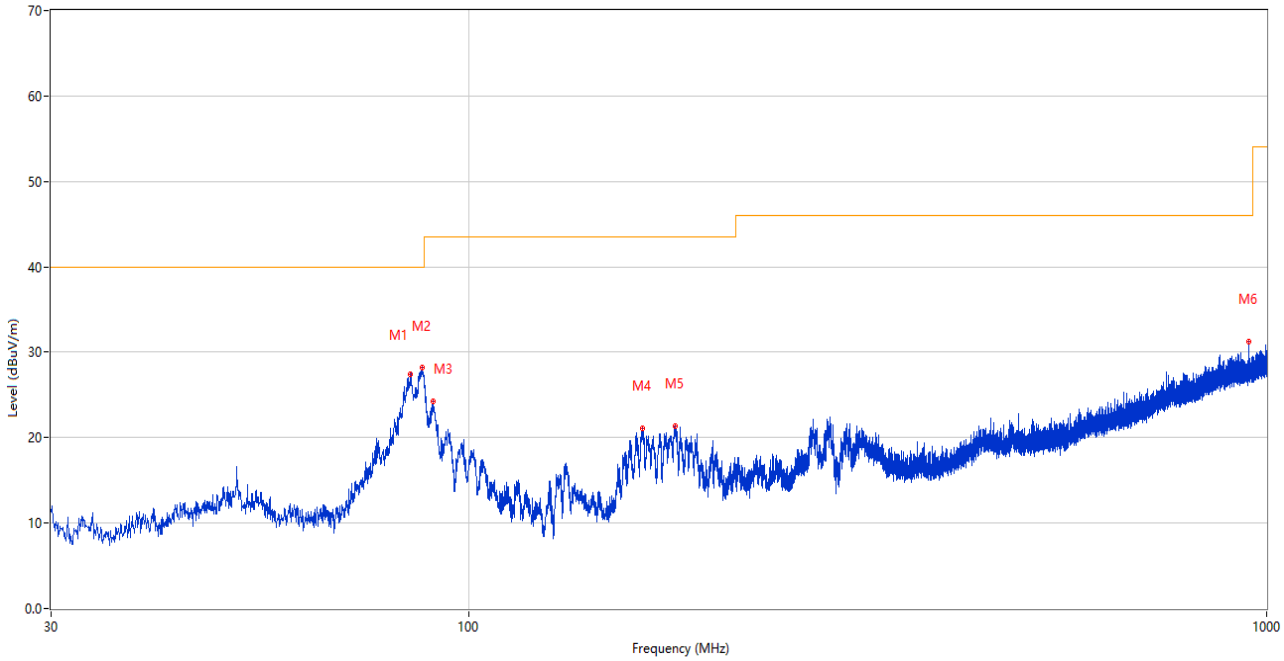
Test Mode 3

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	49.885	32.40	-25.57	40.0	7.60	Peak	270.00	100	Vertical	Pass
2	64.677	27.84	-27.42	40.0	12.16	Peak	228.00	100	Vertical	Pass
3	71.128	27.74	-29.82	40.0	12.26	Peak	273.00	100	Vertical	Pass
4	87.618	27.76	-29.24	40.0	12.24	Peak	248.00	100	Vertical	Pass
5	159.980	27.40	-29.57	43.5	16.10	Peak	323.00	100	Vertical	Pass
6	182.338	26.62	-28.28	43.5	16.88	Peak	360.00	100	Vertical	Pass

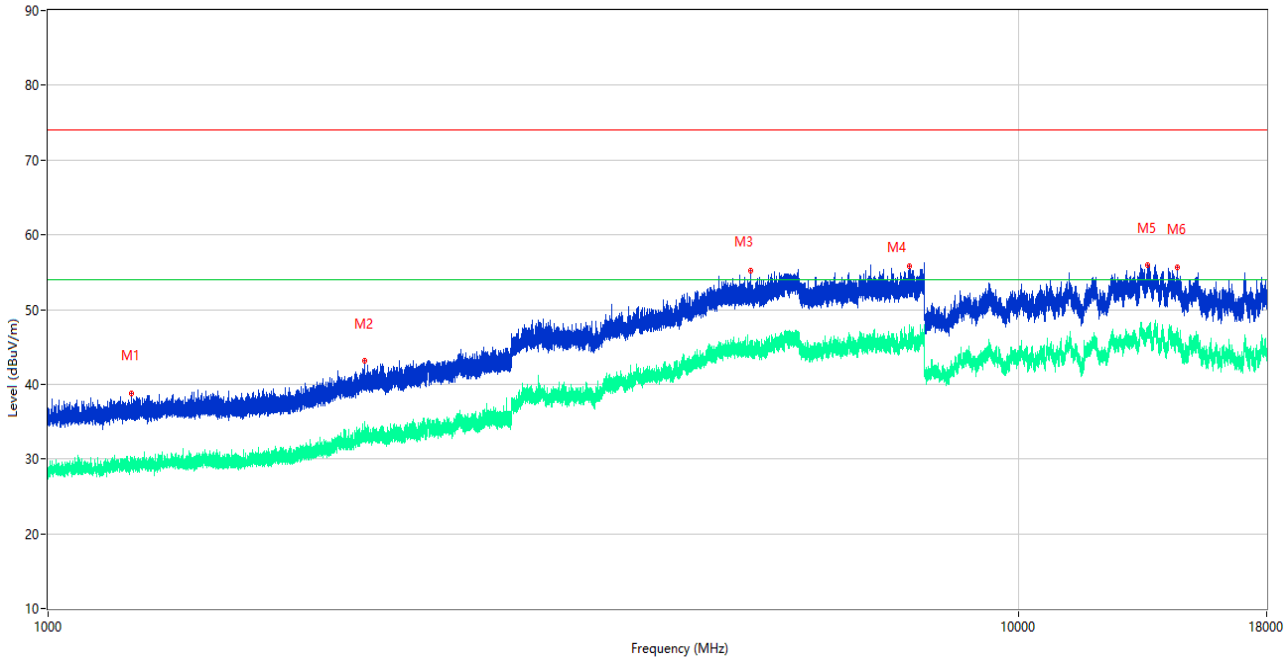
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	84.660	27.39	-30.00	40.0	12.61	Peak	140.00	200	Horizontal	Pass
2	87.618	28.15	-29.24	40.0	11.85	Peak	158.00	200	Horizontal	Pass
3	90.188	24.29	-28.46	43.5	19.21	Peak	146.00	200	Horizontal	Pass
4	165.412	21.14	-29.32	43.5	22.36	Peak	256.00	200	Horizontal	Pass
5	181.611	21.31	-28.38	43.5	22.19	Peak	355.00	200	Horizontal	Pass
6	950.336	31.20	-9.42	46.0	14.80	Peak	356.00	100	Horizontal	Pass

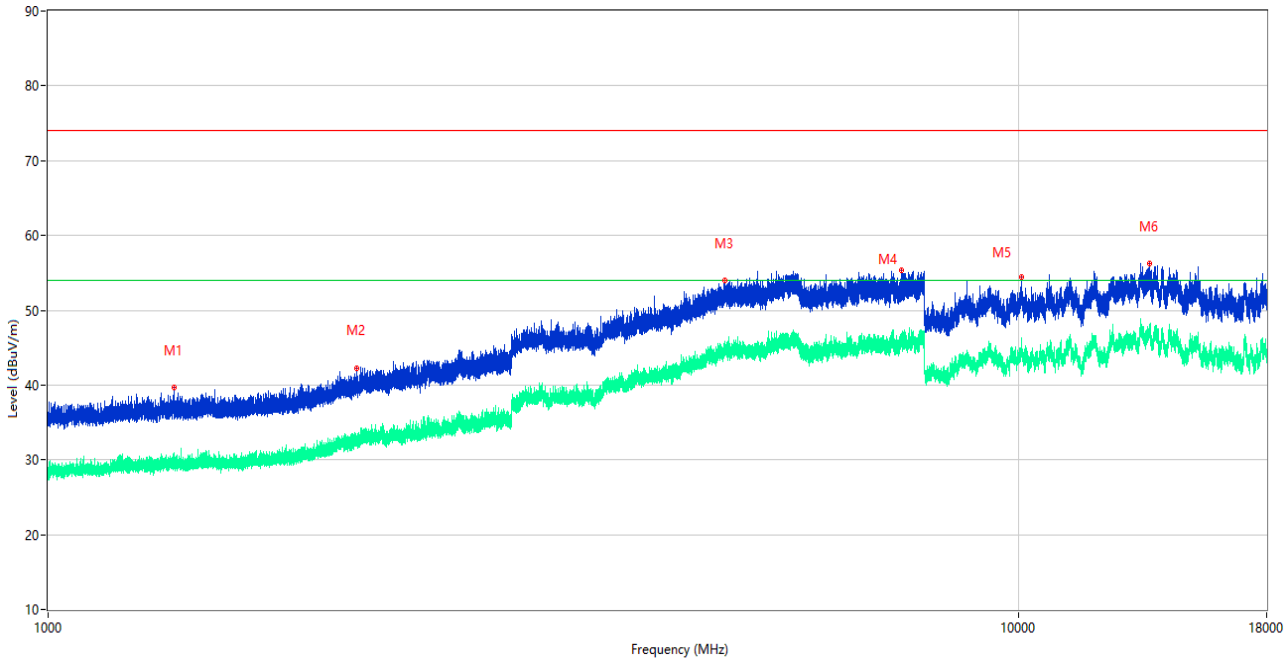
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04	☒
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-00867	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	1218.000	38.83	-16.12	74.0	35.17	Peak	165.00	100	Vertical	Pass
1**	1218.000	29.50	-16.12	54.0	24.50	AV	165.00	100	Vertical	Pass
2	2116.600	43.14	-12.72	74.0	30.86	Peak	262.00	100	Vertical	Pass
2**	2116.600	33.85	-12.72	54.0	20.15	AV	262.00	100	Vertical	Pass
3	5294.250	55.24	2.03	74.0	18.76	Peak	164.00	100	Vertical	Pass
3**	5294.250	44.92	2.03	54.0	9.08	AV	164.00	100	Vertical	Pass
4	7710.500	55.74	2.38	74.0	18.26	Peak	290.00	100	Vertical	Pass
4**	7710.500	45.62	2.38	54.0	8.38	AV	290.00	100	Vertical	Pass
5	13570.500	55.99	4.73	74.0	18.01	Peak	263.00	100	Vertical	Pass
5**	13570.500	47.02	4.73	54.0	6.98	AV	263.00	100	Vertical	Pass
6	14572.500	55.72	4.50	74.0	18.28	Peak	143.00	100	Vertical	Pass
6**	14572.500	45.90	4.50	54.0	8.10	AV	143.00	100	Vertical	Pass

4) Test Antenna Horizontal, 1 GHz – 18 GHz



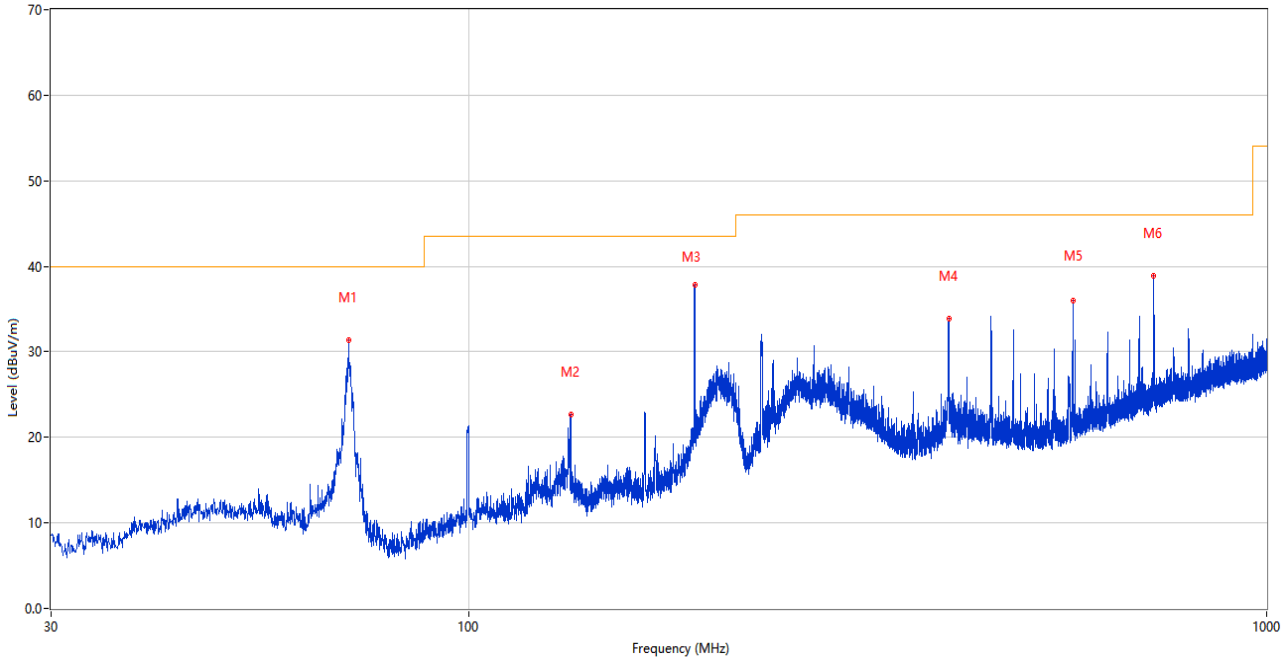
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1348.200	39.71	-15.95	74.0	34.29	Peak	170.00	100	Horizontal	Pass
1**	1348.200	29.18	-15.95	54.0	24.82	AV	170.00	100	Horizontal	Pass
2	2077.300	42.28	-12.53	74.0	31.72	Peak	162.00	100	Horizontal	Pass
2**	2077.300	33.23	-12.53	54.0	20.77	AV	162.00	100	Horizontal	Pass
3	4977.500	54.01	2.39	74.0	19.99	Peak	127.00	100	Horizontal	Pass
3**	4977.500	44.20	2.39	54.0	9.80	AV	127.00	100	Horizontal	Pass
4	7566.750	55.29	2.68	74.0	18.71	Peak	81.00	100	Horizontal	Pass
4**	7566.750	46.86	2.68	54.0	7.14	AV	81.00	100	Horizontal	Pass
5	10068.000	54.40	2.08	74.0	19.60	Peak	191.00	100	Horizontal	Pass
5**	10068.000	44.55	2.08	54.0	9.45	AV	191.00	100	Horizontal	Pass
6	13626.500	56.28	4.93	74.0	17.72	Peak	73.00	100	Horizontal	Pass
6**	13626.500	47.37	4.93	54.0	6.63	AV	73.00	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	☒
EMI Receiver	R&S	FSV-40	101544	2023.12.27	2024.12.26	☒
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	☒
Amplifier (18-40GHz)	COM-MV	KA_LNA18-40G-01	18050001	2024.06.15	2027.06.14	☒
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01917	2022.06.09	2025.06.08	☒
Test Antenna-Horn	A-INFOMW	LB-180400KF	J211060273	2024.06.15	2027.06.14	☒
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	23.9℃
Humidity	49%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2024.07.31

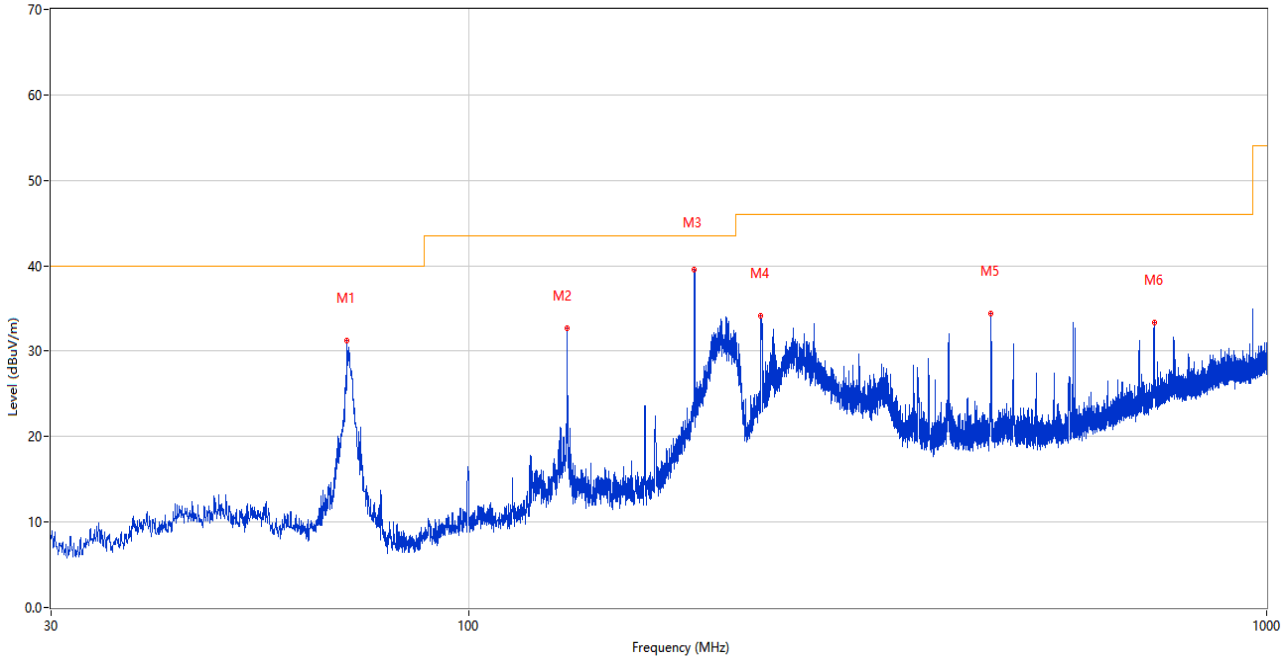
Test Mode 7

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	70.788	31.35	-29.72	40.0	8.65	Peak	78.00	100	Vertical	Pass
2	134.275	22.73	-29.97	43.5	20.77	Peak	125.00	100	Vertical	Pass
3	192.038	37.85	-27.15	43.5	5.65	Peak	209.00	100	Vertical	Pass
4	399.861	33.87	-20.95	46.0	12.13	Peak	345.00	100	Vertical	Pass
5	571.939	35.95	-16.99	46.0	10.05	Peak	124.00	200	Vertical	Pass
6	721.998	38.85	-13.56	46.0	7.15	Peak	121.00	200	Vertical	Pass

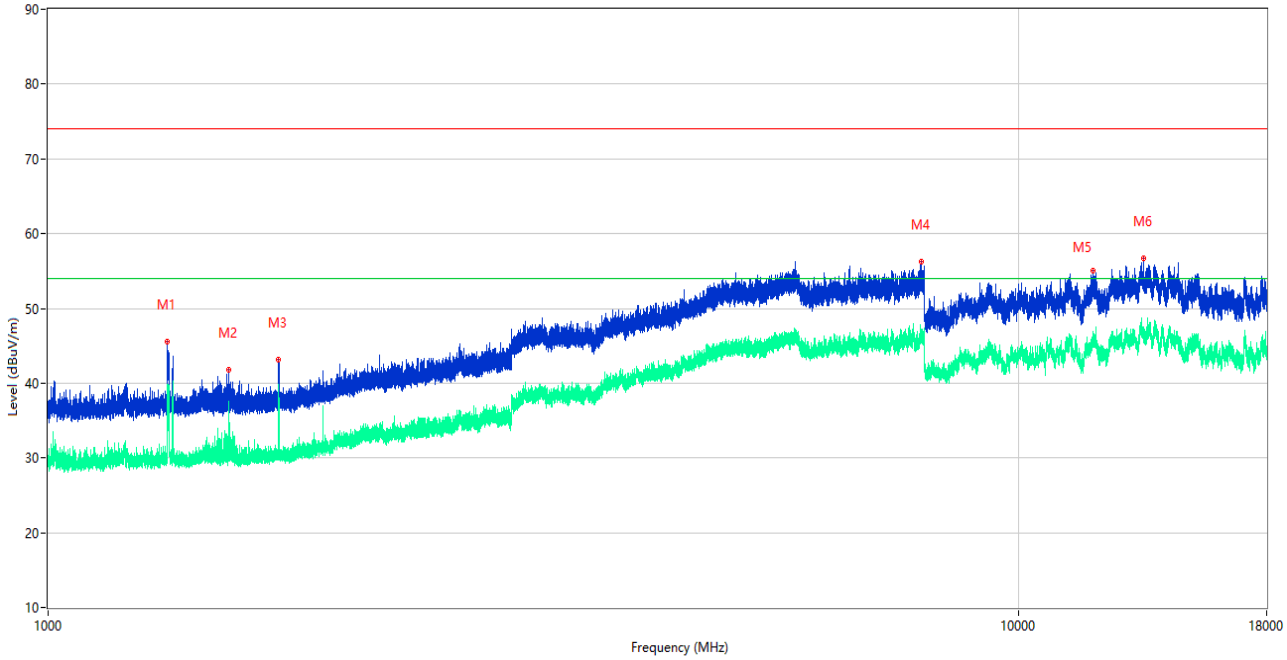
6) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	70.497	31.21	-29.60	40.0	8.79	Peak	173.00	200	Horizontal	Pass
2	132.917	32.74	-29.94	43.5	10.76	Peak	252.00	200	Horizontal	Pass
3	191.990	39.49	-27.16	43.5	4.01	Peak	137.00	100	Horizontal	Pass
4	232.584	34.21	-25.44	46.0	11.79	Peak	96.00	100	Horizontal	Pass
5	451.514	34.45	-19.86	46.0	11.55	Peak	74.00	200	Horizontal	Pass
6	722.726	33.31	-13.50	46.0	12.69	Peak	98.00	100	Horizontal	Pass

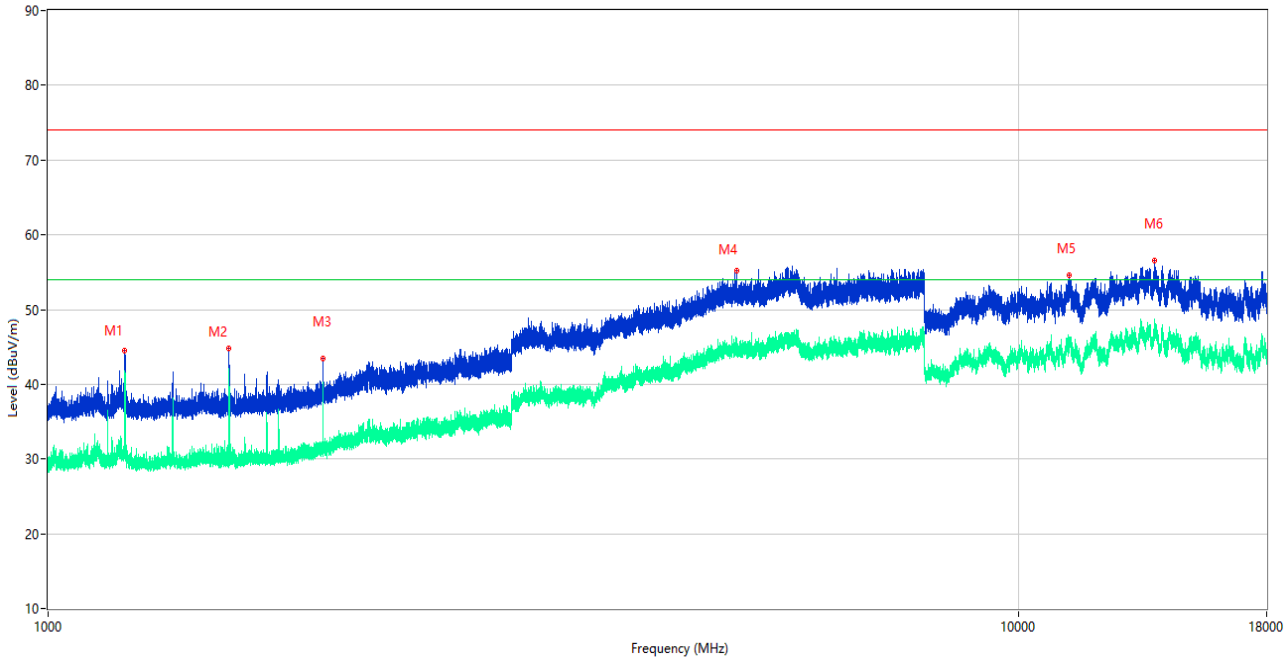
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04	☒
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-00867	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	1327.500	45.56	-16.06	74.0	28.44	Peak	244.00	100	Vertical	Pass
1**	1327.500	37.39	-16.06	54.0	16.61	AV	244.00	100	Vertical	Pass
2	1536.300	41.83	-15.99	74.0	32.17	Peak	158.00	100	Vertical	Pass
2**	1536.300	36.28	-15.99	54.0	17.72	AV	158.00	100	Vertical	Pass
3	1727.800	43.12	-15.81	74.0	30.88	Peak	149.00	100	Vertical	Pass
3**	1727.800	38.40	-15.81	54.0	15.60	AV	149.00	100	Vertical	Pass
4	7932.500	56.28	3.18	74.0	17.72	Peak	360.00	100	Vertical	Pass
4**	7932.500	46.65	3.18	54.0	7.35	AV	360.00	100	Vertical	Pass
5	11924.500	55.01	2.46	74.0	18.99	Peak	127.00	100	Vertical	Pass
5**	11924.500	45.89	2.46	54.0	8.11	AV	127.00	100	Vertical	Pass
6	13457.000	56.70	4.20	74.0	17.30	Peak	73.00	100	Vertical	Pass
6**	13457.000	46.19	4.20	54.0	7.81	AV	73.00	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	1200.000	44.53	-16.20	74.0	29.47	Peak	27.00	100	Horizontal	Pass
1**	1200.000	41.42	-16.20	54.0	12.58	AV	27.00	100	Horizontal	Pass
2	1535.800	44.75	-15.95	74.0	29.25	Peak	147.00	100	Horizontal	Pass
2**	1535.800	40.89	-15.95	54.0	13.11	AV	147.00	100	Horizontal	Pass
3	1919.600	43.38	-14.42	74.0	30.62	Peak	229.00	100	Horizontal	Pass
3**	1919.600	37.93	-14.42	54.0	16.07	AV	229.00	100	Horizontal	Pass
4	5118.250	55.24	1.56	74.0	18.76	Peak	159.00	100	Horizontal	Pass
4**	5118.250	44.63	1.56	54.0	9.37	AV	159.00	100	Horizontal	Pass
5	11276.000	54.66	2.10	74.0	19.34	Peak	222.00	100	Horizontal	Pass
5**	11276.000	45.37	2.10	54.0	8.63	AV	222.00	100	Horizontal	Pass
6	13805.000	56.53	5.75	74.0	17.47	Peak	353.00	100	Horizontal	Pass
6**	13805.000	47.72	5.75	54.0	6.28	AV	353.00	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	☒
EMI Receiver	R&S	FSV-40	101544	2023.12.27	2024.12.26	☒
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	☒
Amplifier (18-40GHz)	COM-MV	KA_LNA18-40G-01	18050001	2024.06.15	2027.06.14	☒
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01917	2022.06.09	2025.06.08	☒
Test Antenna-Horn	A-INFOMW	LB-180400KF	J211060273	2024.06.15	2027.06.14	☒
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	/		☒

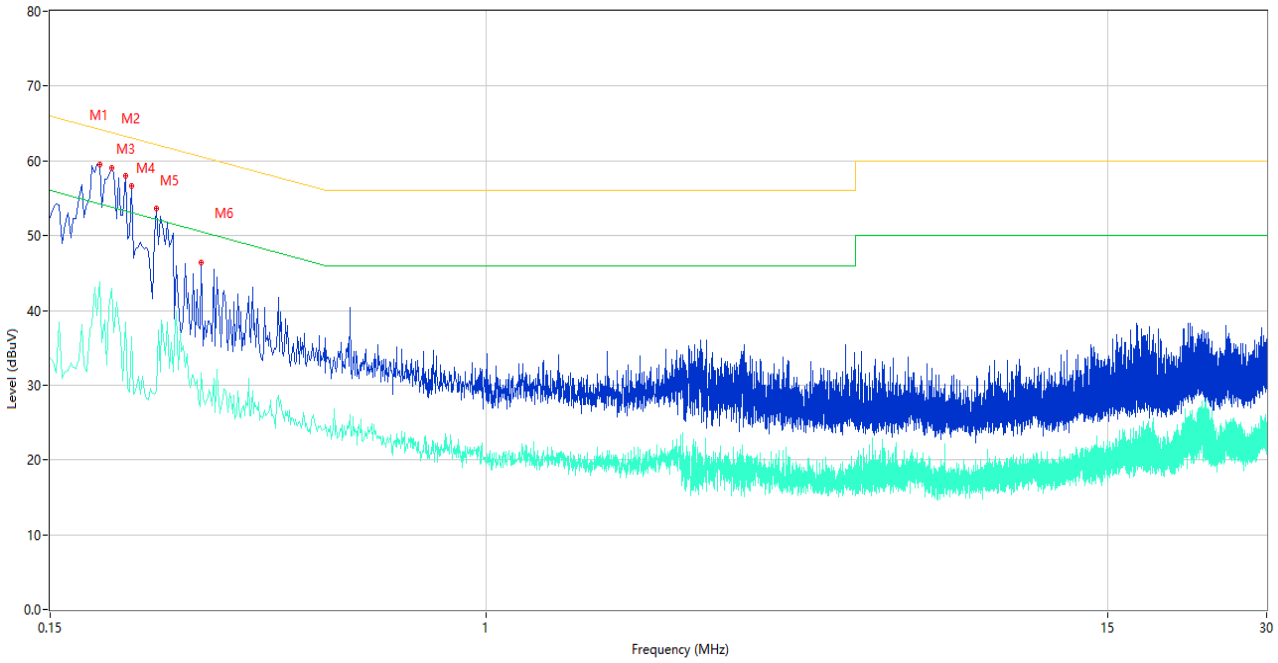
A.2 Conducted Emission, AC Ports

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℃
Humidity	49%RH	Pressure	101kPa
Test Engineer	Yang Yang	Test Date	2024.07.01

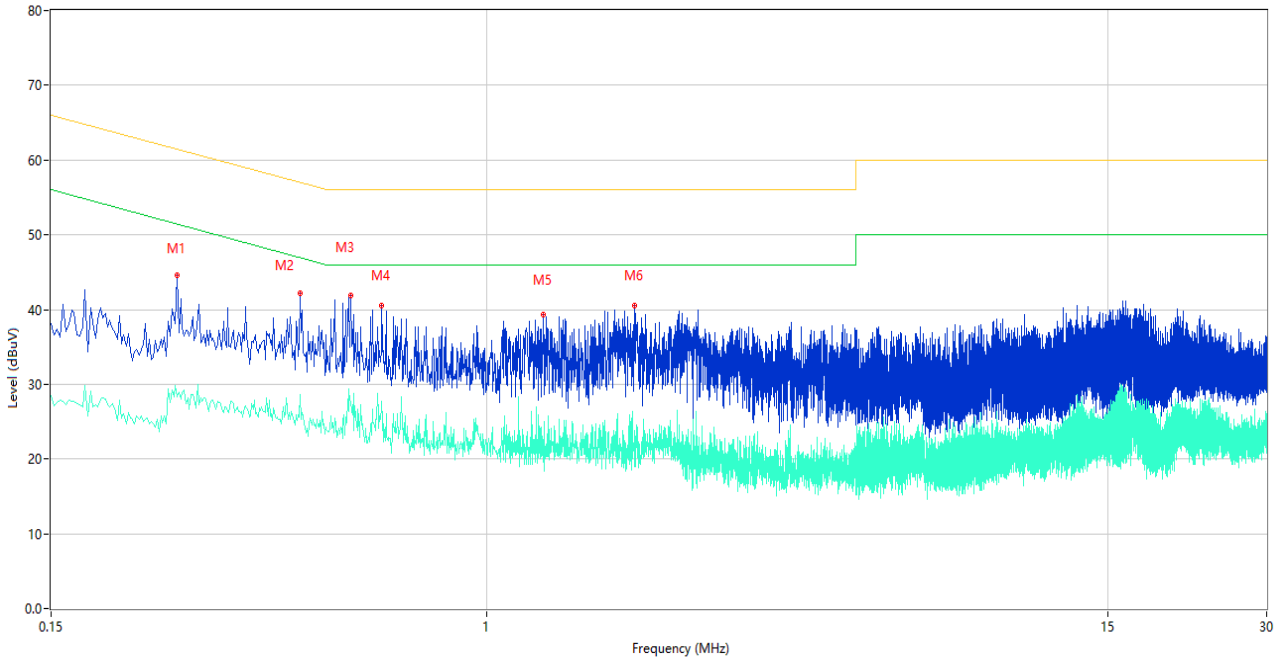
Test Mode 4

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.186	59.44	10.08	64.21	4.77	Peak	L	Pass
1**	0.186	43.77	10.08	54.21	10.44	AV	L	Pass
2	0.196	59.00	10.06	63.78	4.78	Peak	L	Pass
2**	0.196	42.90	10.06	53.78	10.88	AV	L	Pass
3	0.208	58.01	10.06	63.28	5.27	Peak	L	Pass
3**	0.208	38.43	10.06	53.28	14.85	AV	L	Pass
4	0.214	56.64	10.06	63.05	6.41	Peak	L	Pass
4**	0.214	36.50	10.06	53.05	16.55	AV	L	Pass
5	0.238	53.56	10.07	62.17	8.61	Peak	L	Pass
5**	0.238	29.25	10.07	52.17	22.92	AV	L	Pass
6	0.290	46.36	10.09	60.52	14.16	Peak	L	Pass
6**	0.290	31.57	10.09	50.52	18.95	AV	L	Pass

2) AC Ports - N Phase

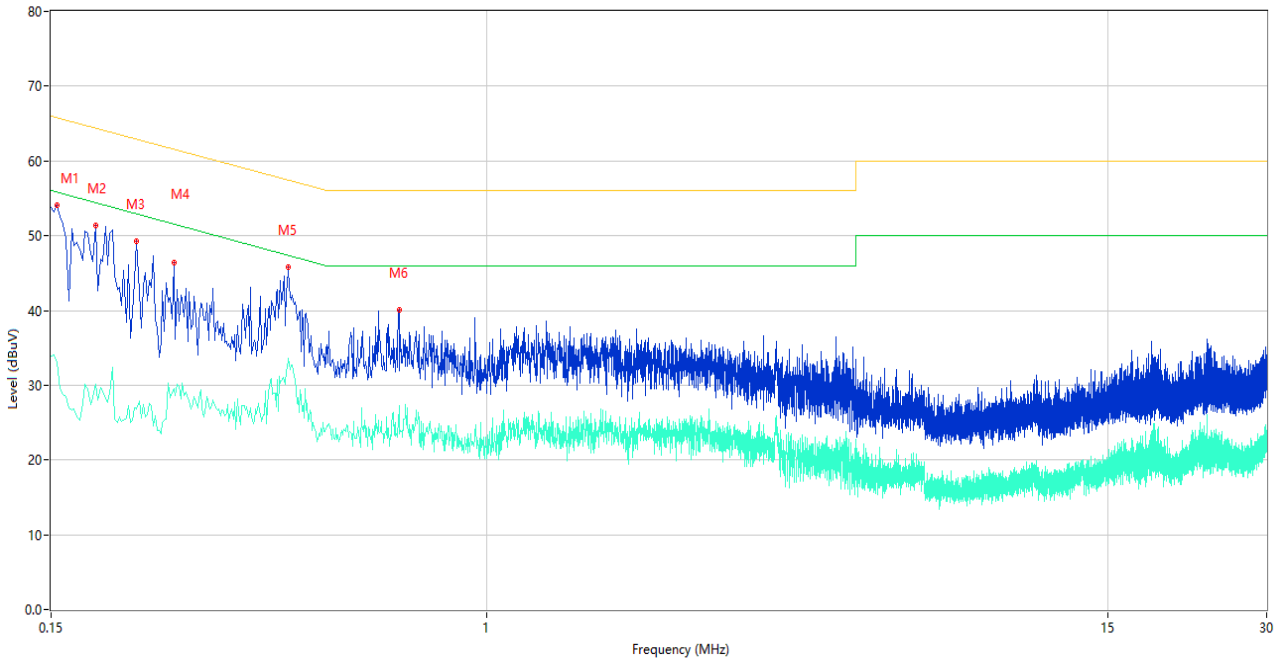


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.260	44.62	10.07	61.43	16.81	Peak	N	Pass
1**	0.260	28.40	10.07	51.43	23.03	AV	N	Pass
2	0.444	42.24	10.62	56.99	14.75	Peak	N	Pass
2**	0.444	28.66	10.62	46.99	18.33	AV	N	Pass
3	0.554	41.89	10.52	56.00	14.11	Peak	N	Pass
3**	0.554	27.66	10.52	46.00	18.34	AV	N	Pass
4	0.634	40.47	10.46	56.00	15.53	Peak	N	Pass
4**	0.634	27.74	10.46	46.00	18.26	AV	N	Pass
5	1.284	39.38	10.39	56.00	16.62	Peak	N	Pass
5**	1.284	19.64	10.39	46.00	26.36	AV	N	Pass
6	1.908	40.46	10.33	56.00	15.54	Peak	N	Pass
6**	1.908	23.77	10.33	46.00	22.23	AV	N	Pass

Sample No.	S06	Temperature	21.9℃
Humidity	52%RH	Pressure	101kPa
Test Engineer	Yang Yang	Test Date	2024.07.10

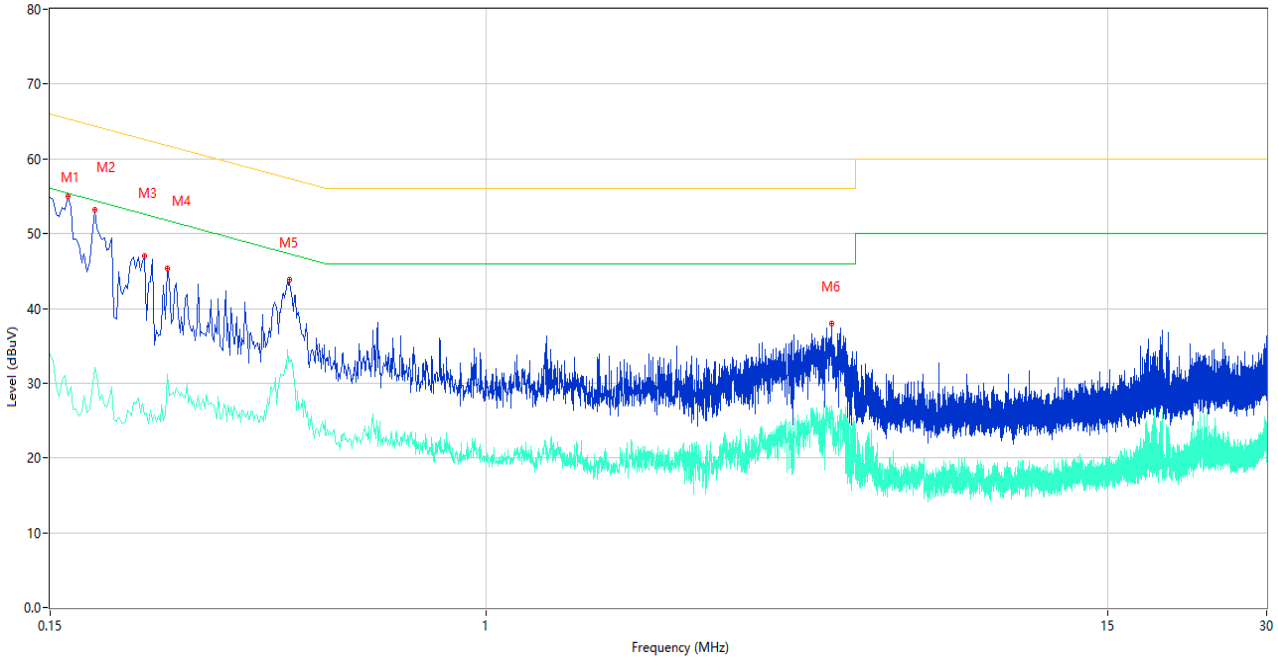
Test Mode 7

3) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.154	54.05	10.12	65.78	11.73	Peak	L	Pass
1**	0.154	32.92	10.12	55.78	22.86	AV	L	Pass
2	0.182	51.31	10.08	64.39	13.08	Peak	L	Pass
2**	0.182	30.10	10.08	54.39	24.29	AV	L	Pass
3	0.218	49.21	10.06	62.89	13.68	Peak	L	Pass
3**	0.218	26.87	10.06	52.89	26.02	AV	L	Pass
4	0.256	46.40	10.07	61.56	15.16	Peak	L	Pass
4**	0.256	29.56	10.07	51.56	22.00	AV	L	Pass
5	0.422	45.74	10.65	57.41	11.67	Peak	L	Pass
5**	0.422	33.62	10.65	47.41	13.79	AV	L	Pass
6	0.684	40.01	10.66	56.00	15.99	Peak	L	Pass
6**	0.684	27.32	10.66	46.00	18.68	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	55.01	10.11	65.36	10.35	Peak	N	Pass
1**	0.162	28.35	10.11	55.36	27.01	AV	N	Pass
2	0.182	53.20	10.08	64.39	11.19	Peak	N	Pass
2**	0.182	32.04	10.08	54.39	22.35	AV	N	Pass
3	0.226	47.08	10.07	62.60	15.52	Peak	N	Pass
3**	0.226	25.76	10.07	52.60	26.84	AV	N	Pass
4	0.250	45.40	10.07	61.76	16.36	Peak	N	Pass
4**	0.250	31.20	10.07	51.76	20.56	AV	N	Pass
5	0.426	43.78	10.64	57.33	13.55	Peak	N	Pass
5**	0.426	32.94	10.64	47.33	14.39	AV	N	Pass
6	4.518	37.90	10.61	56.00	18.10	Peak	N	Pass
6**	4.518	25.54	10.61	46.00	20.46	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	SCHWARZBECK	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-SZ2461152-AE-1.PDF”.

ANNEX C EUT EX7854TERNAL PHOTOS

Please refer the document “BL-SZ2461152-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2461152-AI.PDF”.

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--END OF REPORT--