

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-X6880
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Jun. 27, 2024
Test Date: Jun. 29, 2024 - Jul. 31, 2024
Date of Issue: Aug. 13, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Li JunFeng

Checked by: Liu Zhenxiang

Approved by: Tolan Tu
(Testing Director)



Revision History		
Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>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	<input checked="" type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	<input type="checkbox"/> 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: 5000mAh/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/EDGE 850/1900 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network LTE FDD Band 2/4/5/7 LTE TDD Band 38/41 LTE CA Uplink (UL): CA_2C, CA_5B, CA_7C, CA_38C, CA_41C 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 (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	127801	N/A	Cal. Due 2024.12.04	<input checked="" type="checkbox"/>
Wireless Communications Test Set	R&S	CMW500	121551	N/A	Cal. Due 2025.04.24	<input checked="" type="checkbox"/>
Laptop	Lenovo	ThinkPad E495	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Laptop	HONOR	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Data connector	UGREEN	40702	N/A	N/A	N/A	<input checked="" type="checkbox"/>
USB disk	Sandisk	DTMC3G2	N/A	N/A	64G	<input checked="" type="checkbox"/>
Type-C Headset	OPPO	MH156	N/A	1.12m	N/A	<input checked="" type="checkbox"/>
Phone	HONOR	V20	N/A	N/A	N/A	<input checked="" type="checkbox"/>

4.2 Test Configurations

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

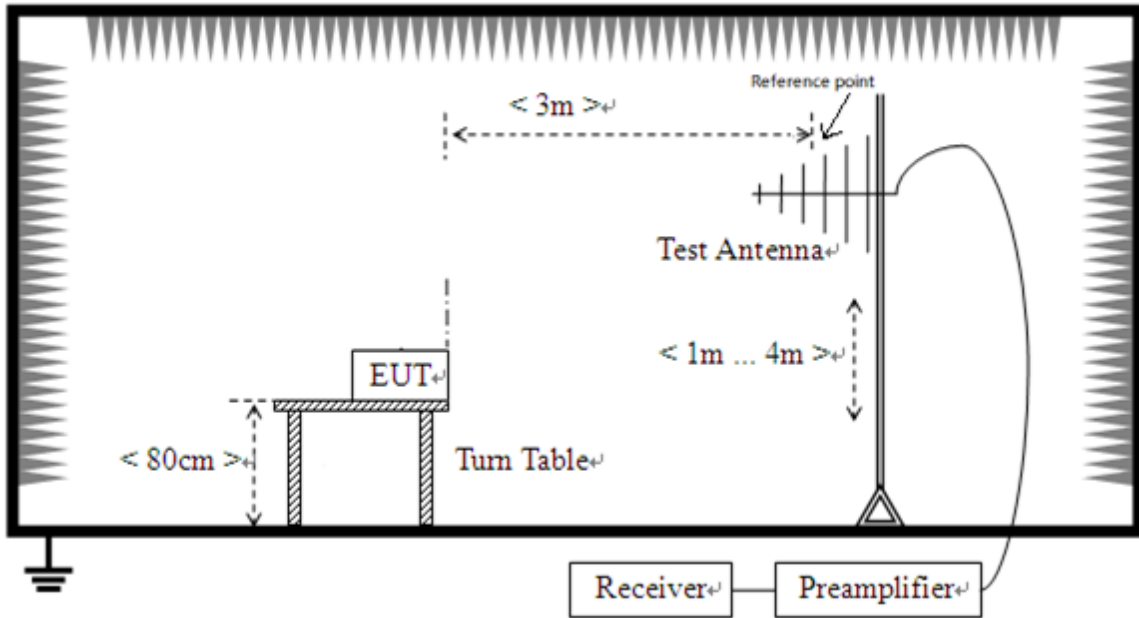
Test Mode Configuration	Description
Mode 1	<u>The Standby Test Mode</u> EUT + Adapter + USB Cable + Battery
Mode 2	<u>The Front Camera Test Mode</u> EUT + Adapter + USB Cable + Battery
Mode 3	<u>The Rear Camera Test Mode</u> EUT + Adapter + USB Cable + Battery
Mode 4	<u>The Video Play Test Mode</u> EUT + Adapter + USB Cable + Battery
Mode 5	<u>The FM Test Mode</u> EUT + Adapter + USB Cable + Battery + FM RX
Mode 6	<u>The USB Test Mode</u> EUT + USB Cable + Battery + Laptop
Mode 7	<u>The OTG Test Mode</u> EUT + Battery + Data connector + USB Disk + Phone
Mode 8	<u>The Type-C Headset Test Mode</u> EUT + Type-C Headset + Battery

Test Case	Test Mode Configuration	Worst Mode
Radiated Emission	Mode 1~Mode 8	1, 6
Conducted Emission, AC Ports	Mode 1~Mode 6	1, 6

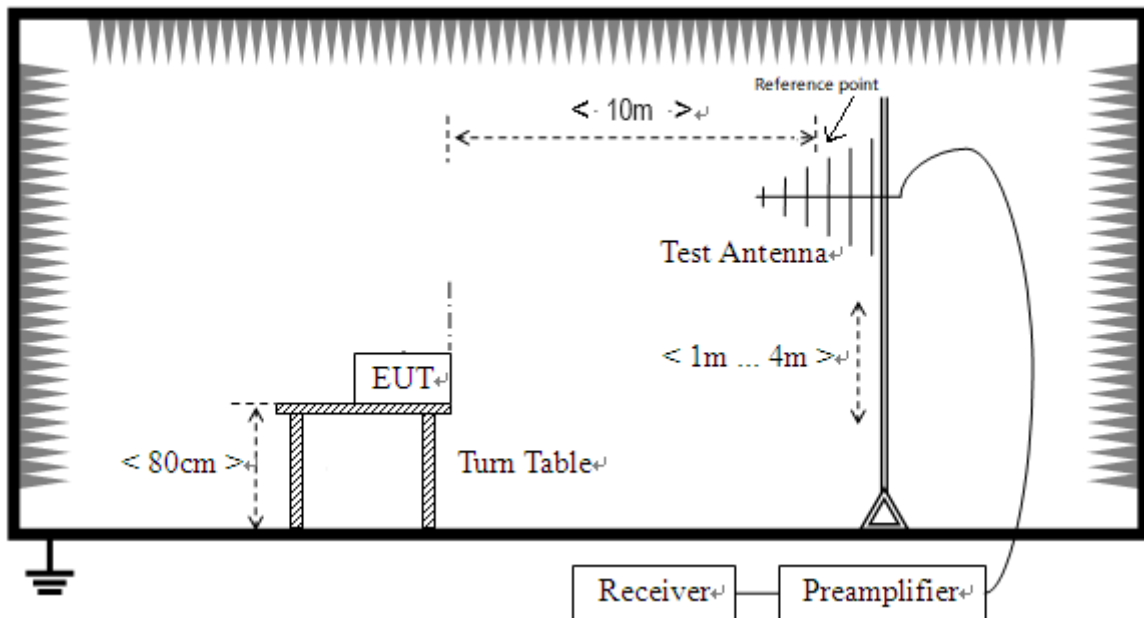
Note: All operation modes were tested, but only test data of the worst mode was presented in this report.

4.3 Test Setups

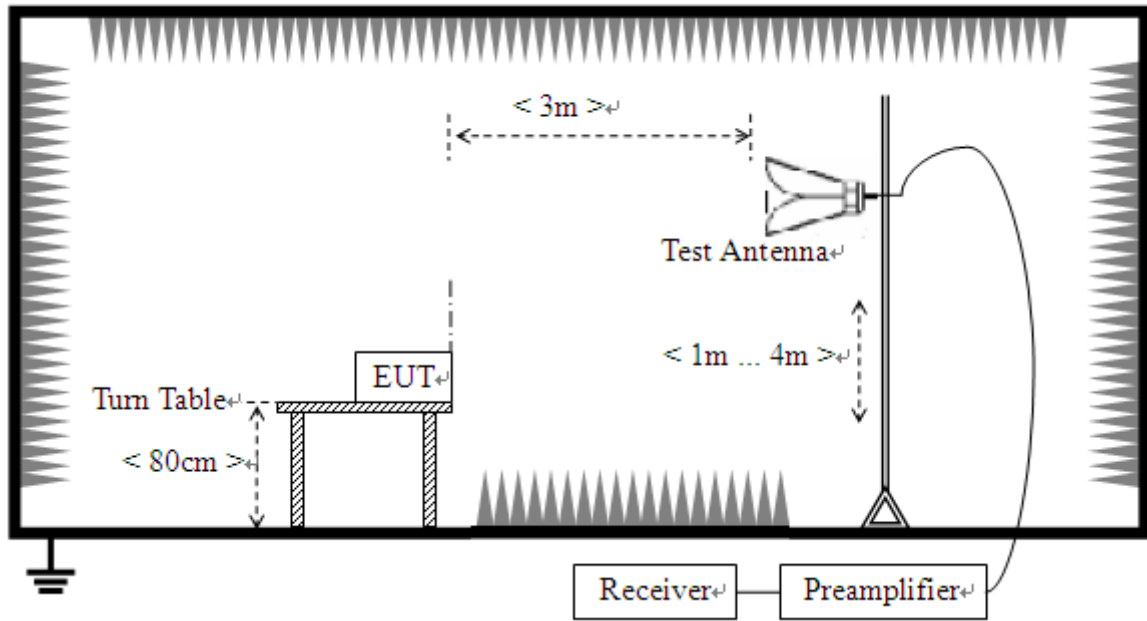
Test Setup 1



Radiated Emission (30 MHz-1 GHz)

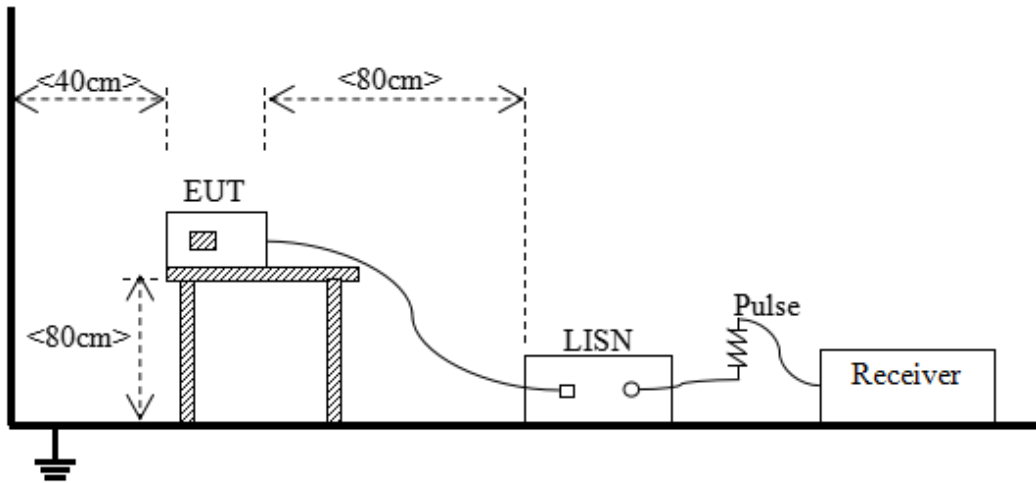


Radiated Emission (30 MHz-1 GHz)



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*log [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*log(10/3)=60 (dB $\mu\text{V/m}$).

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 $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW \geq RBW

Sweep = auto

Detector function = peak for $f < 1$ GHz, peak & RMS Average for $f \geq 1$ 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.

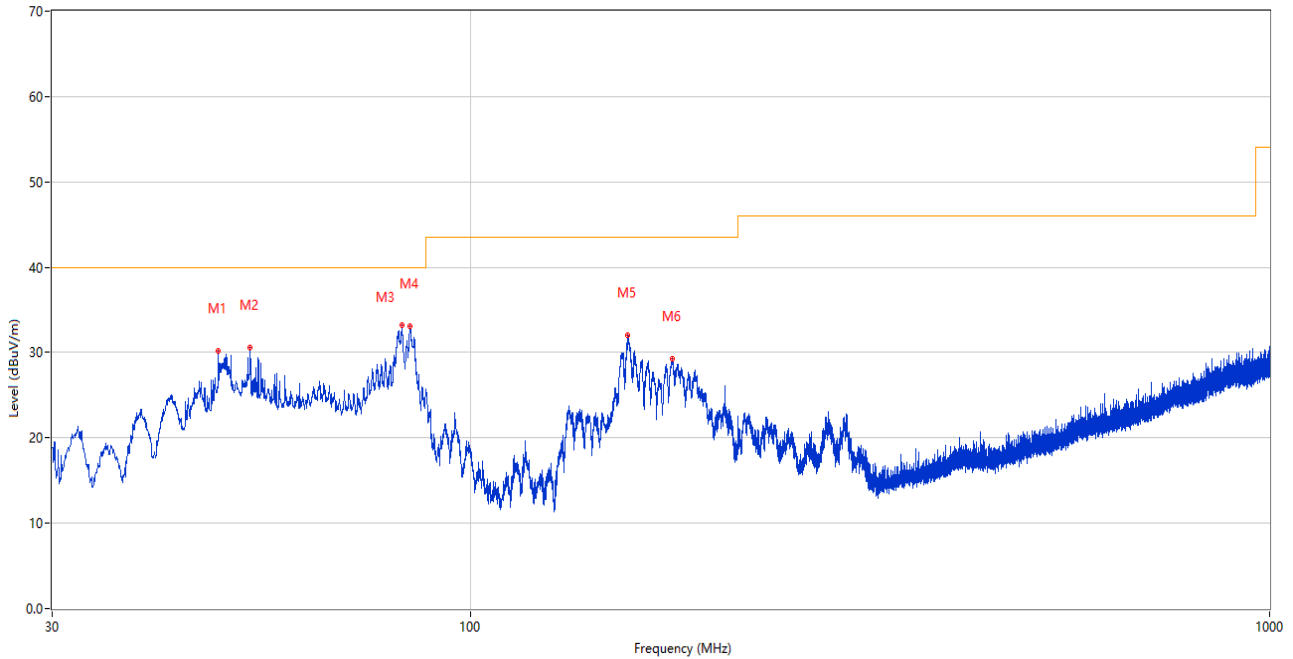
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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	23.2°C
Humidity	49%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2024.06.29

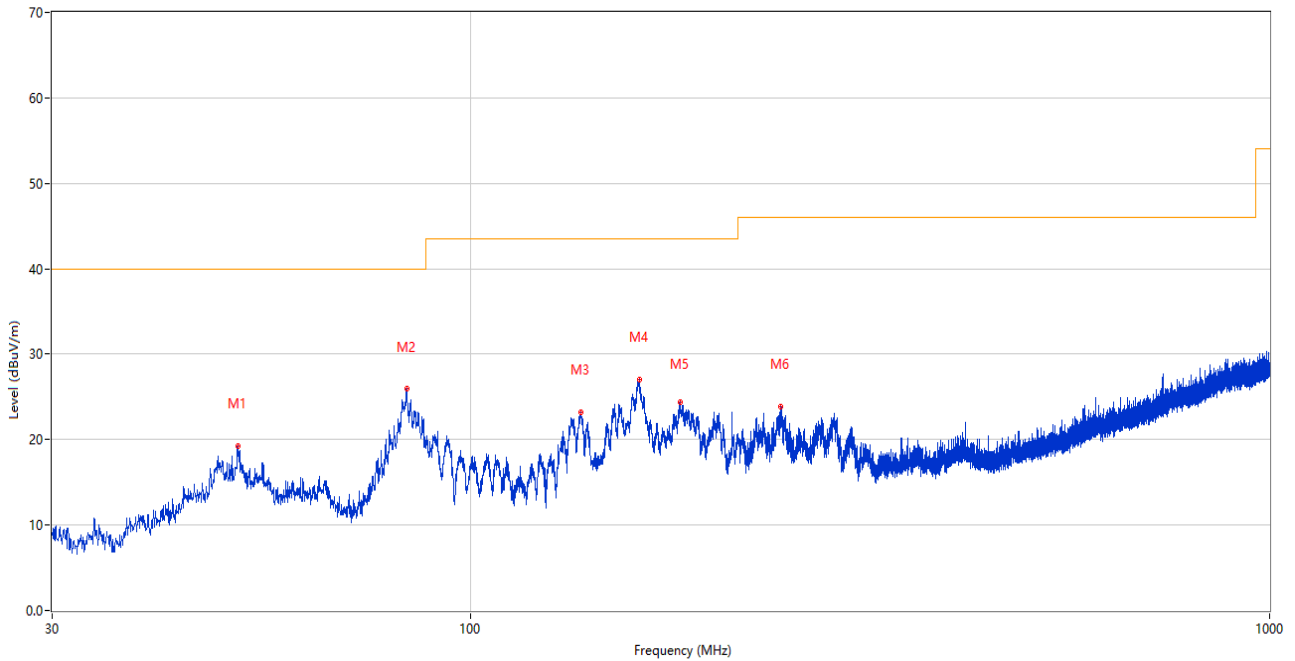
Test Mode 1

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	48.382	30.19	-25.36	40.0	9.81	Peak	83.00	100	Vertical	Pass
2	53.086	30.53	-25.52	40.0	9.47	Peak	60.00	100	Vertical	Pass
3	82.137	33.20	-30.68	40.0	6.80	Peak	0.00	100	Vertical	Pass
4	84.174	33.07	-30.08	40.0	6.93	Peak	65.00	100	Vertical	Pass
5	157.410	32.08	-29.73	43.5	11.42	Peak	356.00	100	Vertical	Pass
6	178.895	29.25	-28.53	43.5	14.25	Peak	303.00	100	Vertical	Pass

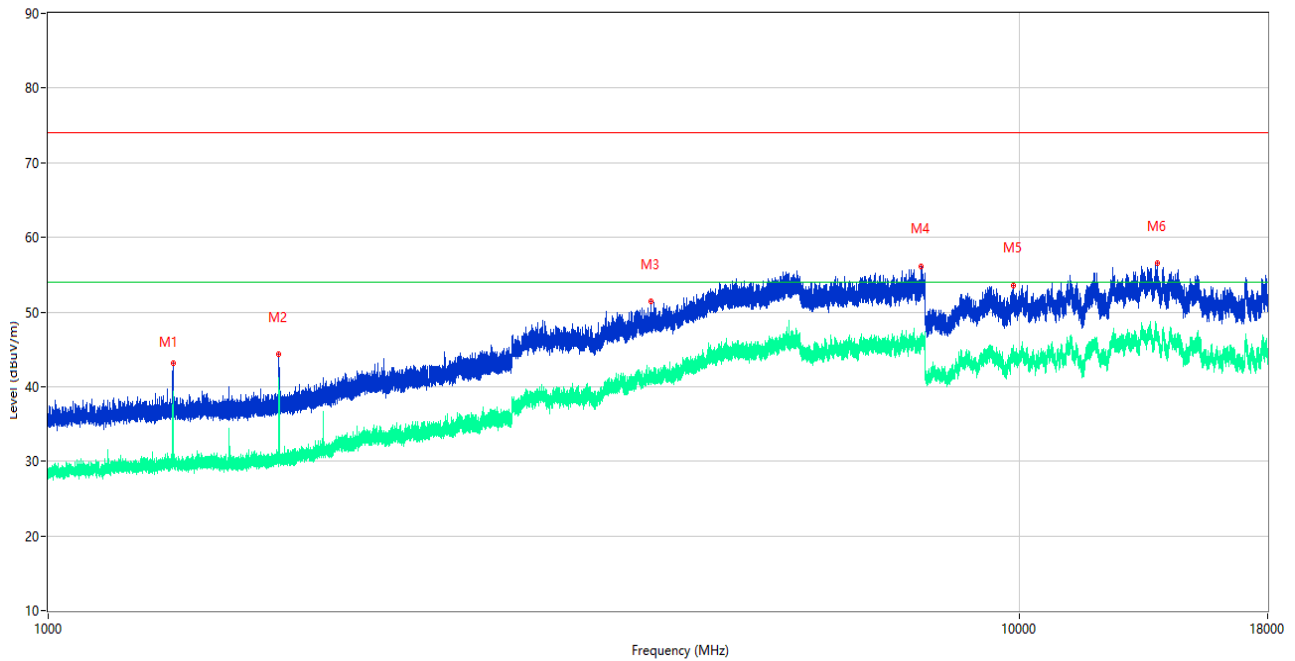
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	51.194	19.31	-25.47	40.0	20.69	Peak	289.00	100	Horizontal	Pass
2	83.253	25.91	-30.39	40.0	14.09	Peak	135.00	200	Horizontal	Pass
3	137.379	23.23	-30.18	43.5	20.27	Peak	281.00	200	Horizontal	Pass
4	162.793	27.03	-29.48	43.5	16.47	Peak	125.00	200	Horizontal	Pass
5	182.920	24.38	-28.24	43.5	19.12	Peak	79.00	200	Horizontal	Pass
6	244.273	23.89	-25.09	46.0	22.11	Peak	77.00	100	Horizontal	Pass

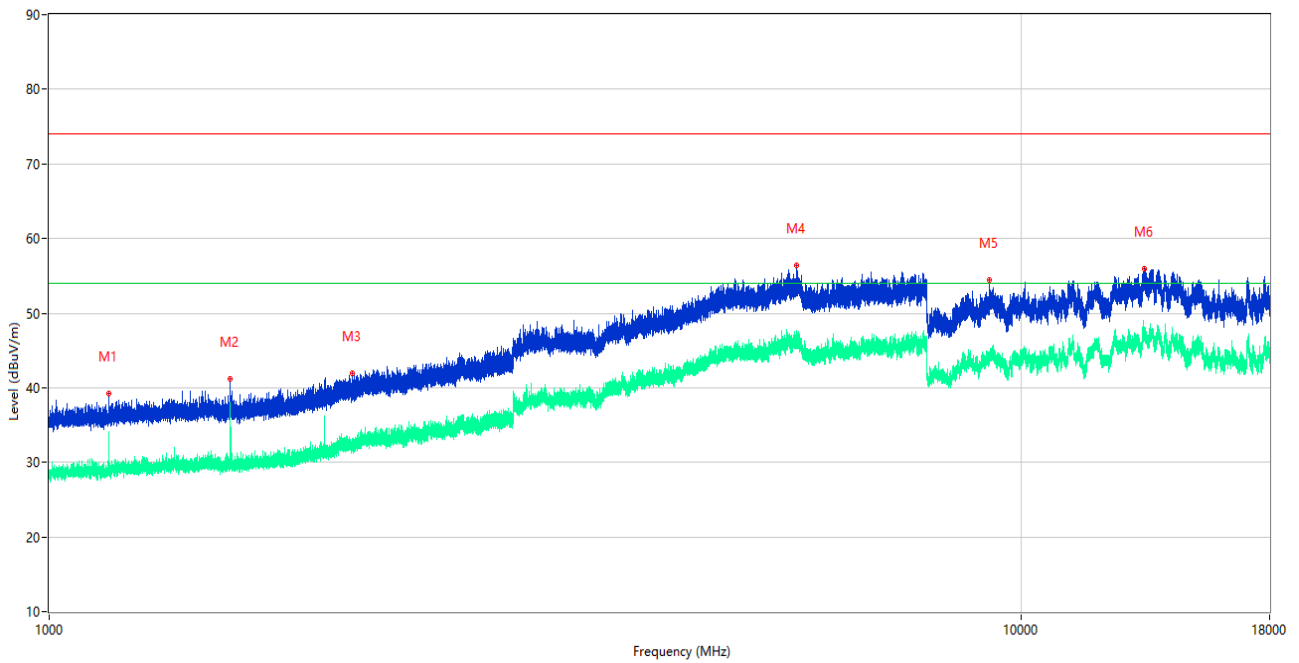
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	<input checked="" type="checkbox"/>
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04	<input checked="" type="checkbox"/>
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	9168-00867	2022.04.12	2025.04.11	<input checked="" type="checkbox"/>
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2021.08.19	2024.08.18	<input checked="" type="checkbox"/>
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		<input checked="" type="checkbox"/>

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	1344.100	43.19	-16.02	74.0	30.81	Peak	188.00	100	Vertical	Pass
1**	1344.100	38.98	-16.02	54.0	15.02	AV	188.00	100	Vertical	Pass
2	1727.600	44.28	-15.85	74.0	29.72	Peak	188.00	100	Vertical	Pass
2**	1727.600	38.35	-15.85	54.0	15.65	AV	188.00	100	Vertical	Pass
3	4171.000	51.47	-1.02	74.0	22.53	Peak	33.00	100	Vertical	Pass
3**	4171.000	41.23	-1.02	54.0	12.77	AV	33.00	100	Vertical	Pass
4	7924.750	56.16	3.00	74.0	17.84	Peak	87.00	100	Vertical	Pass
4**	7924.750	46.16	3.00	54.0	7.84	AV	87.00	100	Vertical	Pass
5	9847.000	53.59	1.05	74.0	20.41	Peak	324.00	100	Vertical	Pass
5**	9847.000	44.01	1.05	54.0	9.99	AV	324.00	100	Vertical	Pass
6	13849.500	56.57	5.18	74.0	17.43	Peak	142.00	100	Vertical	Pass
6**	13849.500	47.03	5.18	54.0	6.97	AV	142.00	100	Vertical	Pass

4) Test Antenna Horizontal, 1 GHz – 18 GHz



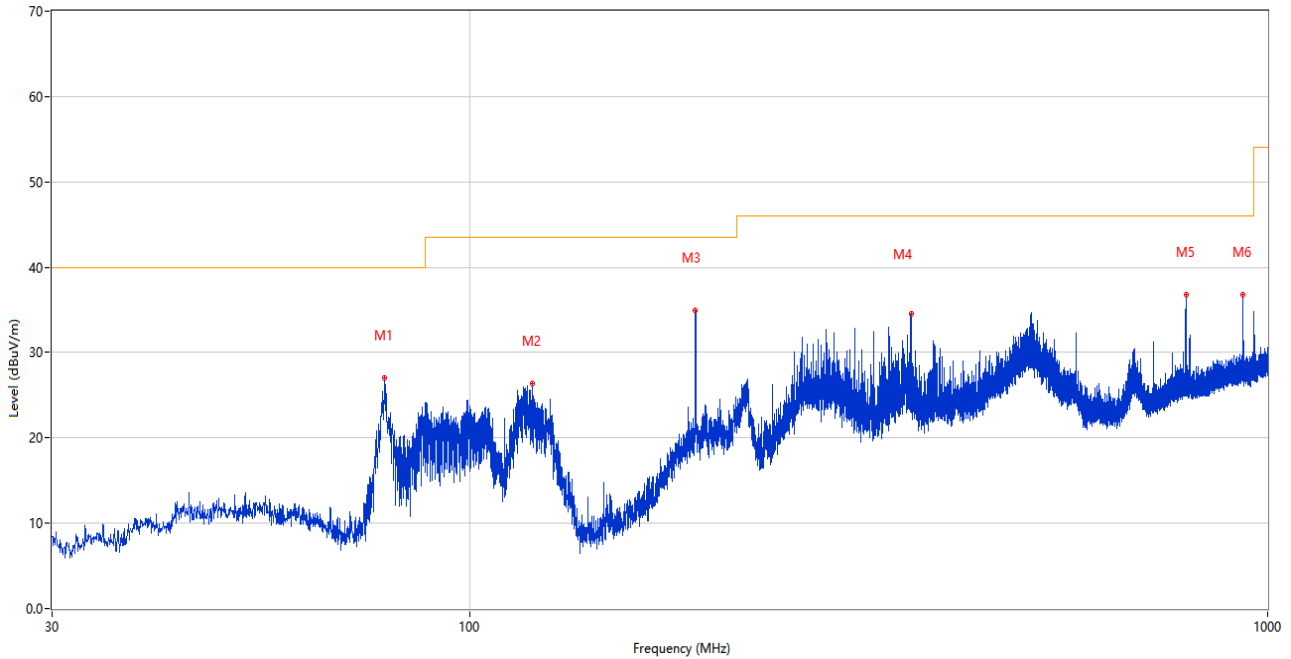
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1152.300	39.26	-16.25	74.0	34.74	Peak	354.00	100	Horizontal	Pass
1**	1152.300	32.09	-16.25	54.0	21.91	AV	354.00	100	Horizontal	Pass
2	1536.100	41.13	-15.98	74.0	32.87	Peak	199.00	100	Horizontal	Pass
2**	1536.100	36.62	-15.98	54.0	17.38	AV	199.00	100	Horizontal	Pass
3	2049.800	41.91	-13.28	74.0	32.09	Peak	2.00	100	Horizontal	Pass
3**	2049.800	32.06	-13.28	54.0	21.94	AV	2.00	100	Horizontal	Pass
4	5870.000	56.34	4.01	74.0	17.66	Peak	44.00	100	Horizontal	Pass
4**	5870.000	45.69	4.01	54.0	8.31	AV	44.00	100	Horizontal	Pass
5	9268.000	54.38	1.72	74.0	19.62	Peak	148.00	100	Horizontal	Pass
5**	9268.000	43.80	1.72	54.0	10.20	AV	148.00	100	Horizontal	Pass
6	13365.500	55.96	5.13	74.0	18.04	Peak	319.00	100	Horizontal	Pass
6**	13365.500	47.51	5.13	54.0	6.49	AV	319.00	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	<input checked="" type="checkbox"/>
Amplifier (1-12GHz)	Advanced Microwave	WLA652A	1740103	2023.12.05	2024.12.04	<input checked="" type="checkbox"/>
Amplifier (0.8-21GHz)	Mini-Circuits	ZVA-213-S+	225321316	2023.12.05	2024.12.04	<input checked="" type="checkbox"/>
Test Antenna- Horn	SCHWARZB ECK	BBHA 9120D	01917	2022.06.09	2025.06.08	<input checked="" type="checkbox"/>
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2021.08.19	2024.08.18	<input checked="" type="checkbox"/>
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		<input checked="" type="checkbox"/>

Sample No.	S06	Temperature	23.2°C
Humidity	49%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2024.07.31

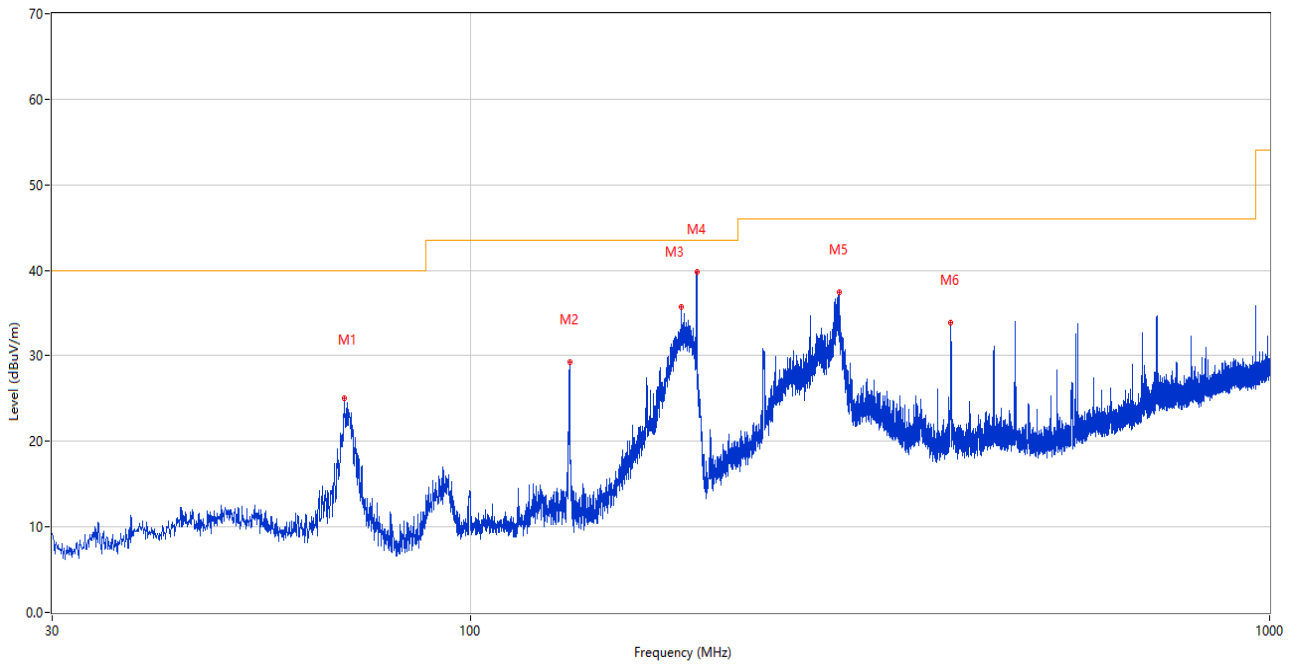
Test Mode 6

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	78.257	27.06	-31.11	40.0	12.94	Peak	244.00	100	Vertical	Pass
2	119.967	26.41	-28.30	43.5	17.09	Peak	359.00	100	Vertical	Pass
3	191.990	34.89	-27.16	43.5	8.61	Peak	23.00	200	Vertical	Pass
4	357.375	34.51	-21.90	46.0	11.49	Peak	156.00	100	Vertical	Pass
5	790.140	36.82	-12.16	46.0	9.18	Peak	117.00	200	Vertical	Pass
6	931.470	36.79	-9.58	46.0	9.21	Peak	147.00	100	Vertical	Pass

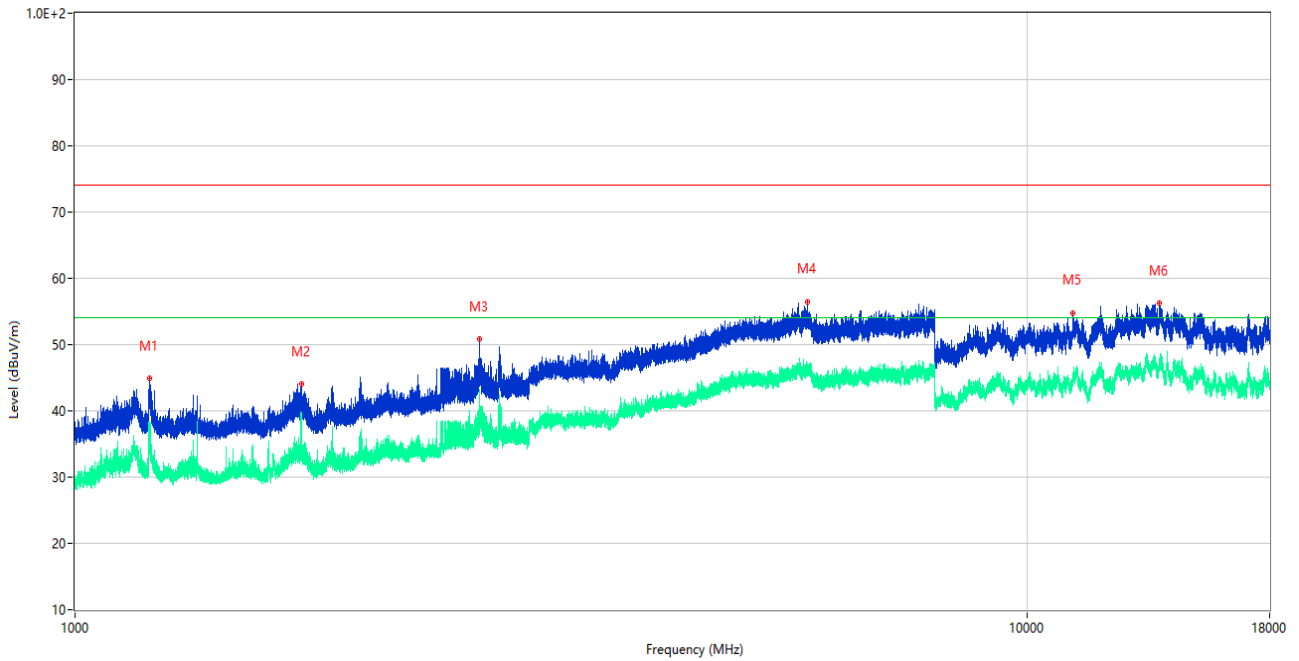
6) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	69.624	25.02	-29.19	40.0	14.98	Peak	152.00	200	Horizontal	Pass
2	133.111	29.26	-29.98	43.5	14.24	Peak	256.00	200	Horizontal	Pass
3	183.842	35.69	-28.13	43.5	7.81	Peak	93.00	200	Horizontal	Pass
4	192.038	39.83	-27.15	43.5	3.67	Peak	145.00	100	Horizontal	Pass
5	289.815	37.44	-23.94	46.0	8.56	Peak	213.00	100	Horizontal	Pass
6	399.279	33.83	-20.97	46.0	12.17	Peak	183.00	100	Horizontal	Pass

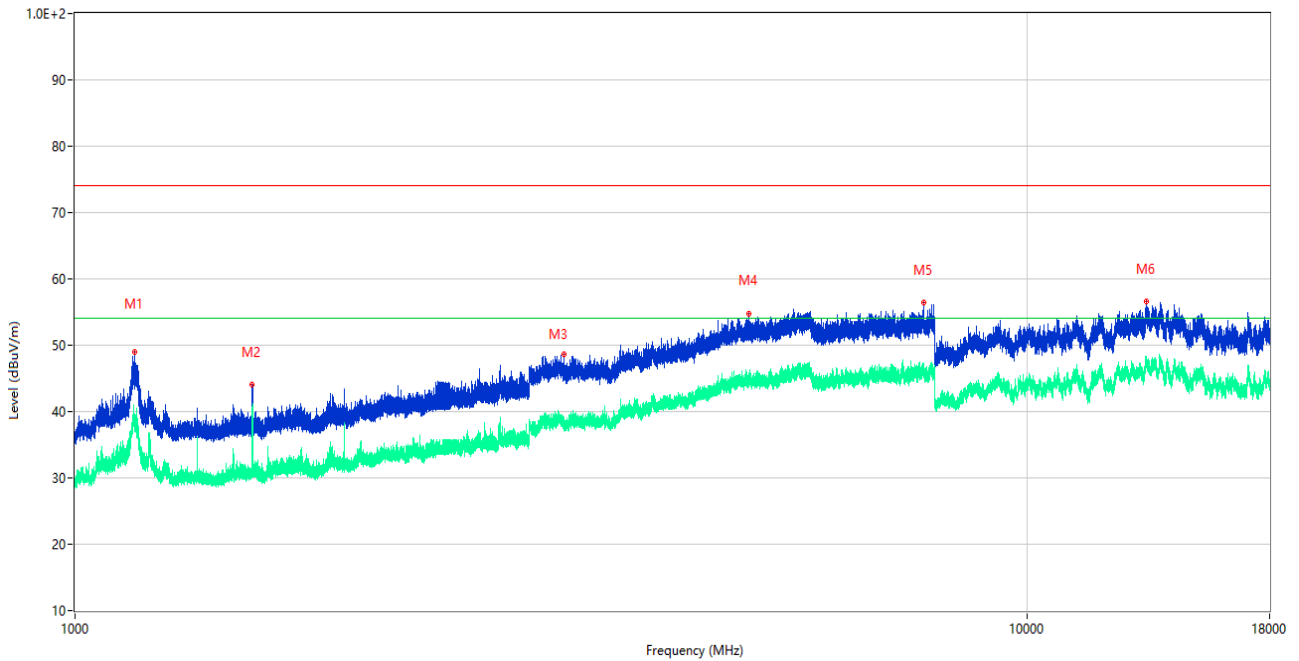
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	<input checked="" type="checkbox"/>
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04	<input checked="" type="checkbox"/>
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	9168-00867	2022.04.12	2025.04.11	<input checked="" type="checkbox"/>
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2021.08.19	2024.08.18	<input checked="" type="checkbox"/>
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		<input checked="" type="checkbox"/>

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	1196.200	44.85	-16.29	74.0	29.15	Peak	213.00	100	Vertical	Pass
1**	1196.200	38.26	-16.29	54.0	15.74	AV	213.00	100	Vertical	Pass
2	1728.800	44.06	-15.84	74.0	29.94	Peak	165.00	100	Vertical	Pass
2**	1728.800	36.87	-15.84	54.0	17.13	AV	165.00	100	Vertical	Pass
3	2663.300	50.81	-8.66	74.0	23.19	Peak	178.00	100	Vertical	Pass
3**	2663.300	41.61	-8.66	54.0	12.39	AV	178.00	100	Vertical	Pass
4	5881.750	56.48	3.91	74.0	17.52	Peak	86.00	100	Vertical	Pass
4**	5881.750	45.77	3.91	54.0	8.23	AV	86.00	100	Vertical	Pass
5	11194.500	54.79	2.09	74.0	19.21	Peak	287.00	100	Vertical	Pass
5**	11194.500	45.61	2.09	54.0	8.39	AV	287.00	100	Vertical	Pass
6	13789.000	56.26	5.32	74.0	17.74	Peak	195.00	100	Vertical	Pass
6**	13789.000	46.78	5.32	54.0	7.22	AV	195.00	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	1155.500	49.02	-16.17	74.0	24.98	Peak	71.00	100	Horizontal	Pass
1**	1155.500	38.83	-16.17	54.0	15.17	AV	71.00	100	Horizontal	Pass
2	1535.900	44.04	-15.96	74.0	29.96	Peak	241.00	100	Horizontal	Pass
2**	1535.900	40.63	-15.96	54.0	13.37	AV	241.00	100	Horizontal	Pass
3	3263.000	48.60	-4.81	74.0	25.40	Peak	97.00	100	Horizontal	Pass
3**	3263.000	38.49	-4.81	54.0	15.51	AV	97.00	100	Horizontal	Pass
4	5100.500	54.81	1.69	74.0	19.19	Peak	295.00	100	Horizontal	Pass
4**	5100.500	45.71	1.69	54.0	8.29	AV	295.00	100	Horizontal	Pass
5	7786.250	56.36	3.12	74.0	17.64	Peak	331.00	100	Horizontal	Pass
5**	7786.250	46.68	3.12	54.0	7.32	AV	331.00	100	Horizontal	Pass
6	13351.999	56.57	5.22	74.0	17.43	Peak	245.00	100	Horizontal	Pass
6**	13351.999	48.28	5.22	54.0	5.72	AV	245.00	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	<input checked="" type="checkbox"/>
Amplifier (1-12GHz)	Advanced Microwave	WLA652A	1740103	2023.12.05	2024.12.04	<input checked="" type="checkbox"/>
Amplifier (0.8-21GHz)	Mini-Circuits	ZVA-213-S+	225321316	2023.12.05	2024.12.04	<input checked="" type="checkbox"/>
Test Antenna- Horn	SCHWARZB ECK	BBHA 9120D	01917	2022.06.09	2025.06.08	<input checked="" type="checkbox"/>
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2021.08.19	2024.08.18	<input checked="" type="checkbox"/>
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		<input checked="" type="checkbox"/>

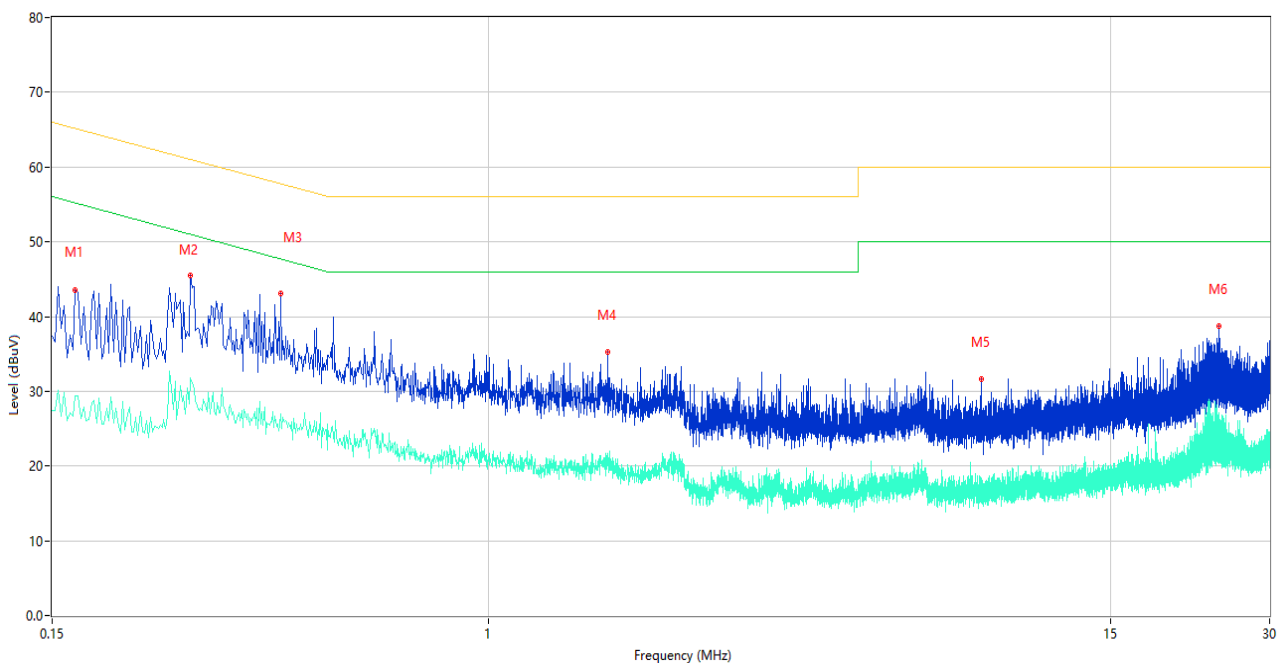
A.2 Conducted Emission, AC Ports

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	24.3°C
Humidity	52%RH	Pressure	101kPa
Test Engineer	Yangyang	Test Date	2024.07.03

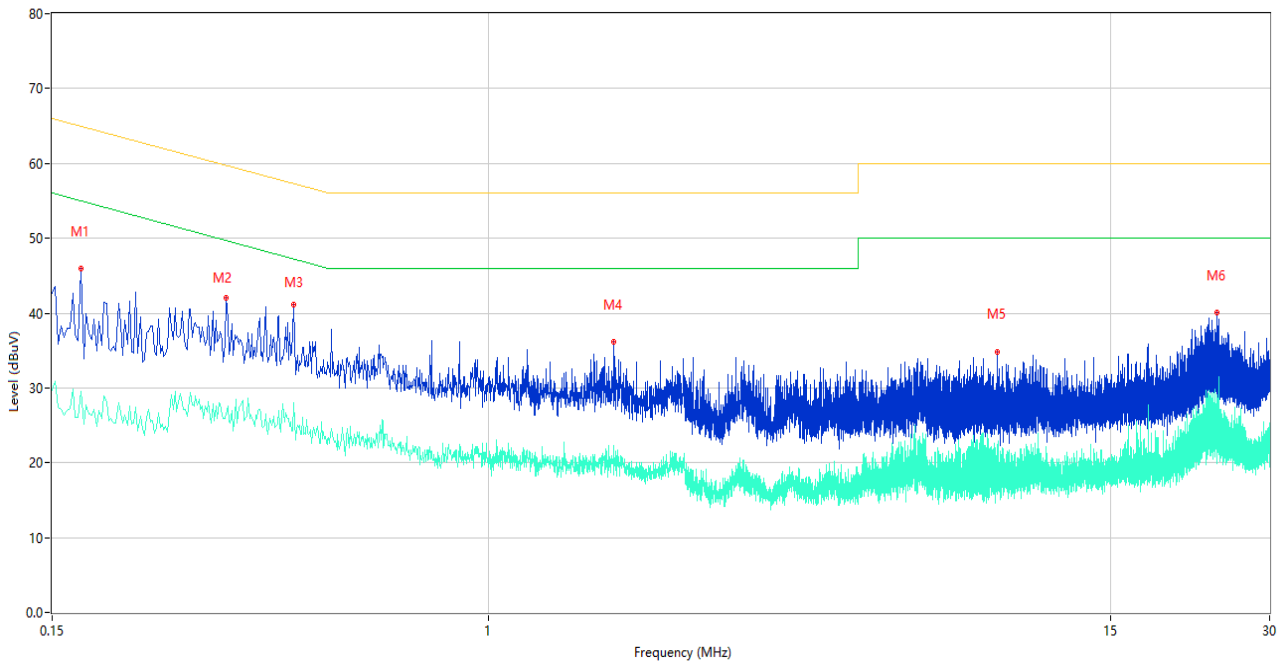
Test Mode 1

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.166	43.61	10.10	65.16	21.55	Peak	L	Pass
1**	0.166	29.43	10.10	55.16	25.73	AV	L	Pass
2	0.274	45.56	10.08	61.00	15.44	Peak	L	Pass
2**	0.274	31.73	10.08	51.00	19.27	AV	L	Pass
3	0.406	43.07	10.67	57.73	14.66	Peak	L	Pass
3**	0.406	27.01	10.67	47.73	20.72	AV	L	Pass
4	1.686	35.18	10.52	56.00	20.82	Peak	L	Pass
4**	1.686	21.70	10.52	46.00	24.30	AV	L	Pass
5	8.542	31.60	11.38	60.00	28.40	Peak	L	Pass
5**	8.542	18.07	11.38	50.00	31.93	AV	L	Pass
6	24.026	38.69	13.59	60.00	21.31	Peak	L	Pass
6**	24.026	27.09	13.59	50.00	22.91	AV	L	Pass

2) AC Ports - N Phase

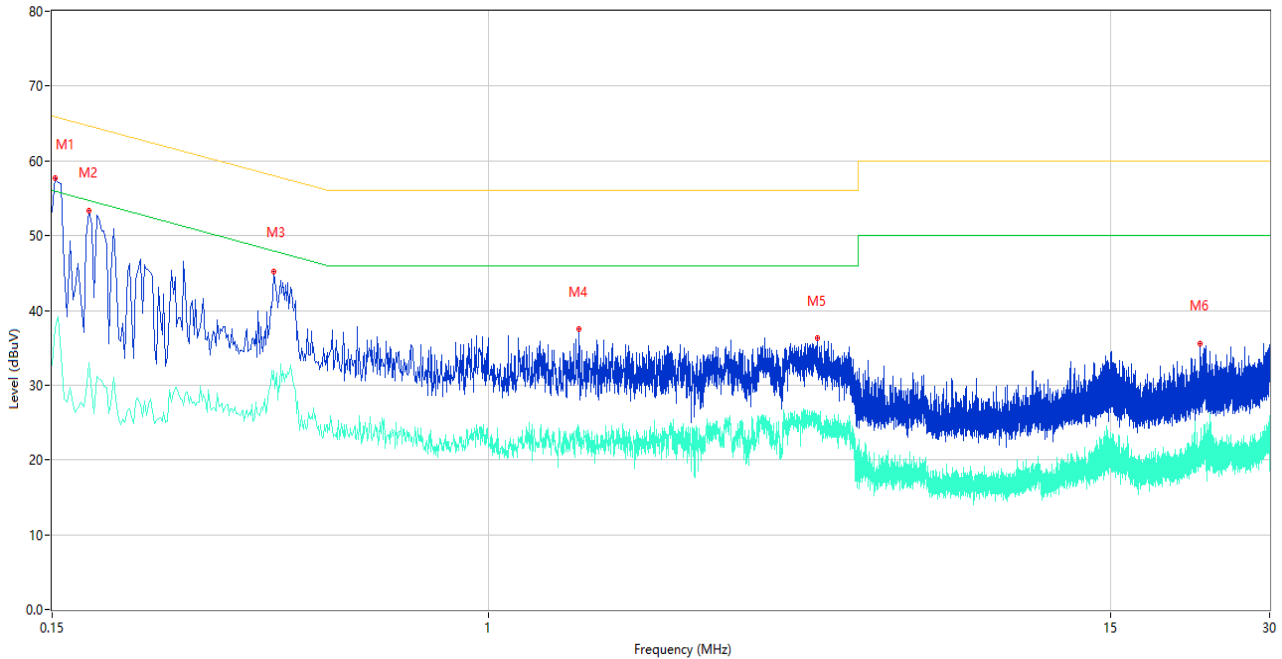


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.170	45.93	10.10	64.96	19.03	Peak	N	Pass
1**	0.170	29.57	10.10	54.96	25.39	AV	N	Pass
2	0.320	41.99	10.05	59.71	17.72	Peak	N	Pass
2**	0.320	26.57	10.05	49.71	23.14	AV	N	Pass
3	0.430	41.12	10.64	57.25	16.13	Peak	N	Pass
3**	0.430	28.07	10.64	47.25	19.18	AV	N	Pass
4	1.726	36.09	10.52	56.00	19.91	Peak	N	Pass
4**	1.726	21.39	10.52	46.00	24.61	AV	N	Pass
5	9.170	34.86	11.37	60.00	25.14	Peak	N	Pass
5**	9.170	17.43	11.37	50.00	32.57	AV	N	Pass
6	23.826	40.06	13.41	60.00	19.94	Peak	N	Pass
6**	23.826	29.04	13.41	50.00	20.96	AV	N	Pass

Sample No.	S06	Temperature	24.3°C
Humidity	52%RH	Pressure	101kPa
Test Engineer	Yangyang	Test Date	2024.07.03

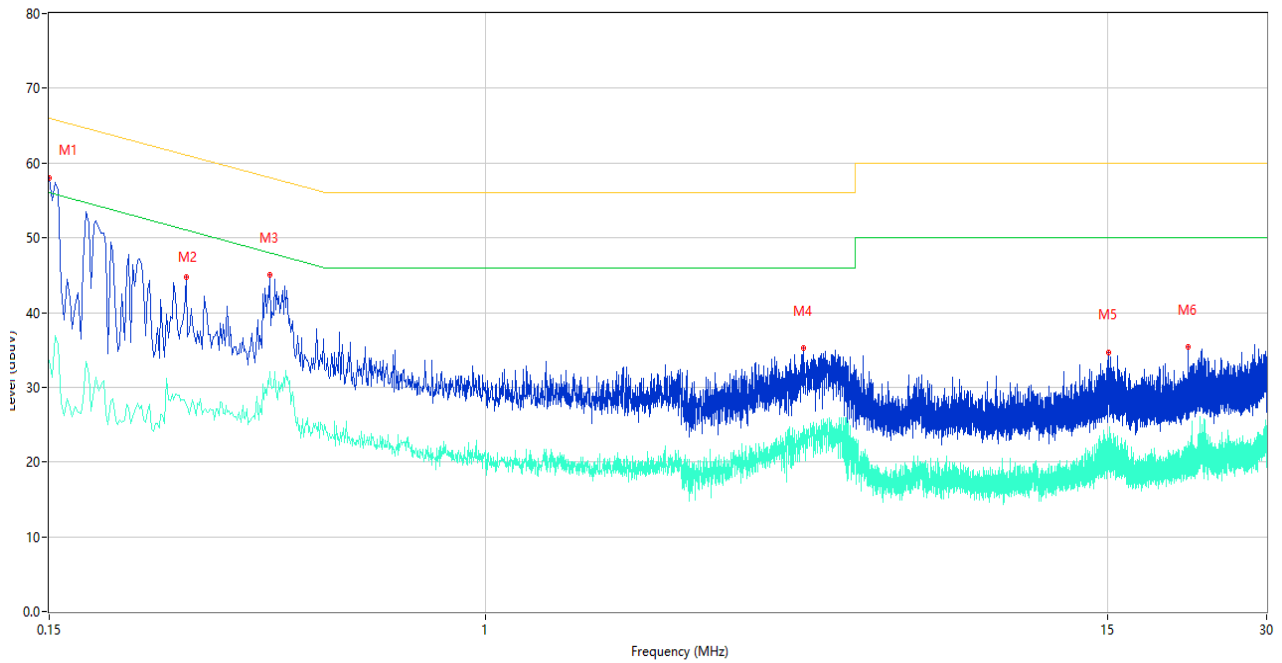
Test Mode 6

3) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	57.75	10.12	65.89	8.14	Peak	L	Pass
1**	0.152	37.72	10.12	55.89	18.17	AV	L	Pass
2	0.176	53.40	10.09	64.67	11.27	Peak	L	Pass
2**	0.176	32.97	10.09	54.67	21.70	AV	L	Pass
3	0.394	45.13	10.60	57.98	12.85	Peak	L	Pass
3**	0.394	31.93	10.60	47.98	16.05	AV	L	Pass
4	1.482	37.52	10.46	56.00	18.48	Peak	L	Pass
4**	1.482	23.46	10.46	46.00	22.54	AV	L	Pass
5	4.186	36.26	10.45	56.00	19.74	Peak	L	Pass
5**	4.186	25.95	10.45	46.00	20.05	AV	L	Pass
6	22.208	35.63	13.25	60.00	24.37	Peak	L	Pass
6**	22.208	19.66	13.25	50.00	30.34	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	57.93	10.12	66.00	8.07	Peak	N	Pass
1**	0.150	33.53	10.12	56.00	22.47	AV	N	Pass
2	0.272	44.69	10.08	61.06	16.37	Peak	N	Pass
2**	0.272	27.65	10.08	51.06	23.41	AV	N	Pass
3	0.392	45.00	10.57	58.02	13.02	Peak	N	Pass
3**	0.392	32.13	10.57	48.02	15.89	AV	N	Pass
4	4.000	35.25	10.64	56.00	20.75	Peak	N	Pass
4**	4.000	24.83	10.64	46.00	21.17	AV	N	Pass
5	15.098	34.71	12.79	60.00	25.29	Peak	N	Pass
5**	15.098	19.60	12.79	50.00	30.40	AV	N	Pass
6	21.328	35.44	13.24	60.00	24.56	Peak	N	Pass
6**	21.328	22.70	13.24	50.00	27.30	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	<input checked="" type="checkbox"/>
LISN	SCHWARZBECK	NSLK 8127	8127-687	2024.05.09	2025.05.08	<input checked="" type="checkbox"/>
ISN	TESEQ	ISN T800	34449	2023.11.10	2024.11.09	<input type="checkbox"/>
ISN	TESEQ	ISN T8-Cat6	53561	2024.04.24	2025.04.23	<input type="checkbox"/>
Shielded Room	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	2022.02.19	2025.02.18	<input checked="" type="checkbox"/>
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		<input checked="" type="checkbox"/>

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2461151-AE-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2461151-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2461151-AI.PDF”.

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