

TEST REPORT

Applicant: TCL Communication Ltd.
Address: 5/F, Building 22E, 22 Science Park East Avenue,
Hong Kong Science Park, Shatin, NT, Hong Kong
Equipment Type: Tablet PC
Model Name: 8183A
Brand Name: TCL
FCC ID: 2ACCJB240
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Apr. 01, 2025
Test Date: May 08, 2025 - May 13, 2025
Date of Issue: Jun. 16, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Qiu Yongjing**Checked by:** Liu Zhenxiang**Approved by:** Tolan Tu
(Technical Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Jun. 10, 2025</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Jun. 16, 2025</u>	<u>Add test mode</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION.....	3
1.1	Test Laboratory	3
1.2	Test Location	3
2	PRODUCT INFORMATION	4
2.1	Applicant Information	4
2.2	Manufacturer Information.....	4
2.3	General Description for Equipment under Test (EUT)	4
2.4	Ancillary Equipment.....	4
2.5	Technical Information	6
3	SUMMARY OF TEST RESULTS	7
3.1	Test Standards	7
3.2	Verdict	7
3.3	Test Uncertainty	7
4	GENERAL TEST CONFIGURATIONS	8
4.1	Test Enclosure List	8
4.2	Test Configurations	8
4.3	Test Setups	10
5	TEST ITEMS	12
5.1	Emission Tests	12
ANNEX A	TEST RESULTS.....	17
A.1	Radiated Emission.....	17
A.2	Conducted Emission, AC Ports.....	30
ANNEX B	TEST SETUP PHOTOS	36
ANNEX C	EUT EXTERNAL PHOTOS.....	36
ANNEX D	EUT INTERNAL PHOTOS.....	36

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	TCL Communication Ltd.
Address	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong

2.2 Manufacturer Information

Manufacturer	TCL Communication Ltd.
Address	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong

2.3 General Description for Equipment under Test (EUT)

EUT Name	Tablet PC
Model Name Under Test	8183A
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	05
Software Version	7LS2
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment 1	Li-Polymer Battery 1	
	Brand Name	N/A
	Model No.	2853B7PL-2P
	Serial No.	N/A
	Capacitance	Rated: 5820mAh, 22.41Wh Typical: 6000mAh, 23.10Wh
	Rated Voltage	3.85 Vdc
	Limited Voltage	4.40 Vdc
	Manufacturer	HUNAN GAOYUAN BATTERY Co., Ltd.
Ancillary Equipment 2	Power Supply Unit 1	
	Brand Name	N/A
	Model No.	UT-681E-5200MY (EU Plug)
	Serial No.	N/A
	Rated Input	100-240VAC, 50/60Hz, 0.35A
	Rated Output	5.0VDC, 2.0A, 10.0W

	Manufacturer	Shenzhen Baijunda Electronic Co., Ltd
Ancillary Equipment 3	Power Supply Unit 2	
	Brand Name	N/A
	Model No.	UC13EU (EU Plug)
	Serial No.	N/A
	Rated Input	100-240VAC, 50/60Hz, 0.5A
	Rated Output	5.0VDC, 2.0A, 10.0W
	Manufacturer	HUIZHOU PUAN ELECTRONICS CO., LTD.
Ancillary Equipment 4	Power Supply Unit 3	
	Brand Name	N/A
	Model No.	UT-681B-5200MY (UK Plug)
	Serial No.	N/A
	Rated Input	100-240VAC, 50/60Hz, 0.35A
	Rated Output	5.0VDC, 2.0A, 10.0W
	Manufacturer	Shenzhen Baijunda Electronic Co., Ltd
Ancillary Equipment 5	Power Supply Unit 4	
	Brand Name	N/A
	Model No.	UC13UK (UK Plug)
	Serial No.	N/A
	Rated Input	100-240VAC, 50/60Hz, 0.5A
	Rated Output	5.0VDC, 2.0A, 10.0W
	Manufacturer	HUIZHOU PUAN ELECTRONICS CO., LTD.
Ancillary Equipment 6	Power Supply Unit 5	
	Brand Name	N/A
	Model No.	UT-681A-5200MY (US Plug)
	Serial No.	N/A
	Rated Input	100-240VAC, 50/60Hz, 0.35A
	Rated Output	5.0VDC, 2.0A, 10.0W
	Manufacturer	Shenzhen Baijunda Electronic Co., Ltd
Ancillary Equipment 7	Power Supply Unit 6	
	Brand Name	N/A
	Model No.	UC13US (US Plug)
	Serial No.	N/A
	Rated Input	100-240VAC, 50/60Hz, 0.5A
	Rated Output	5.0VDC, 2.0A, 10.0W
	Manufacturer	HUIZHOU PUAN ELECTRONICS CO., LTD.
Ancillary Equipment 8	Power Supply Unit 7	
	Brand Name	N/A
	Model No.	UT-680S-5200MY (AU Plug)
	Serial No.	N/A
	Rated Input	100-240VAC, 50/60Hz, 0.35A

	Rated Output	5.0VDC, 2.0A, 10.0W
	Manufacturer	Shenzhen Baijunda Electronic Co., Ltd
Ancillary Equipment 9	Power Supply Unit 8	
	Brand Name	N/A
	Model No.	UC13THA (TH Plug)
	Serial No.	N/A
	Rated Input	100-240VAC, 50/60Hz, 0.5A
	Rated Output	5.0VDC, 2.0A, 10.0W
	Manufacturer	HUIZHOU PUAN ELECTRONICS CO., LTD.
Ancillary Equipment 10	USB Cable 1	
	Model No.	CDA0000123C1
	Length (Approx.)	0.8 m
Ancillary Equipment 11	USB Cable 2	
	Model No.	CDA0000123C8
	Length (Approx.)	0.8 m
Note 1: Letter in () means plug type.		
Note 2: All adapters are tested, only the worst data of UT-681A-5200MY (US Plug) shown in this report.		
Note 3: All USB Cables are tested, only the worst data of CDA0000123C1 shown in this report.		

2.5 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/900/1800/1900 3G Network WCDMA/HSDPA/HSUPA Band 1/2/4/5/8 4G Network FDD LTE Band 1/2/3/4/5/7/8/12/13/17/20/26/28/66 TDD LTE Band 38/41 Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n HT20, 802.11n HT40 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) FM receiver, GPS, GLONASS, BDS, Galileo
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	HONOR	KPRC-W10	N/A	N/A	N/A	☒
Laptop	Lenovo	ThinkPad E495	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	☒
Earphone	OPPO	N/A	N/A	N/A	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 Front Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + Headset
Mode 2	<u>The Rear Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + Headset
Mode 3	<u>The Video Play Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + Headset
Mode 4	<u>The Charging Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + Headset
Mode 5	<u>The FM Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + FM RX + Headset
Mode 6	<u>The USB Test Mode</u> EUT + USB Cable + Battery + Laptop + TF Card + Headset
Mode 7	<u>The OTG Test Mode</u> EUT + Battery + Data connector + USB Disk + TF Card + Headset
Mode 8	<u>The GSM 850 RX Test Mode</u> GSM 850 RX + EUT + Adapter + USB Cable + Battery + TF Card + Headset
Mode 9	<u>The GSM 900 RX Test Mode</u> GSM 900 RX + EUT + Adapter + USB Cable + Battery + TF Card + Headset
Mode 10	<u>The WCDMA Band 5 RX Test Mode</u> WCDMA Band 5 + EUT + Adapter + USB Cable + Battery + TF Card + Headset
Mode 11	<u>The WCDMA Band 8 RX Test Mode</u> WCDMA Band 8 + EUT + Adapter + USB Cable + Battery + TF Card + Headset

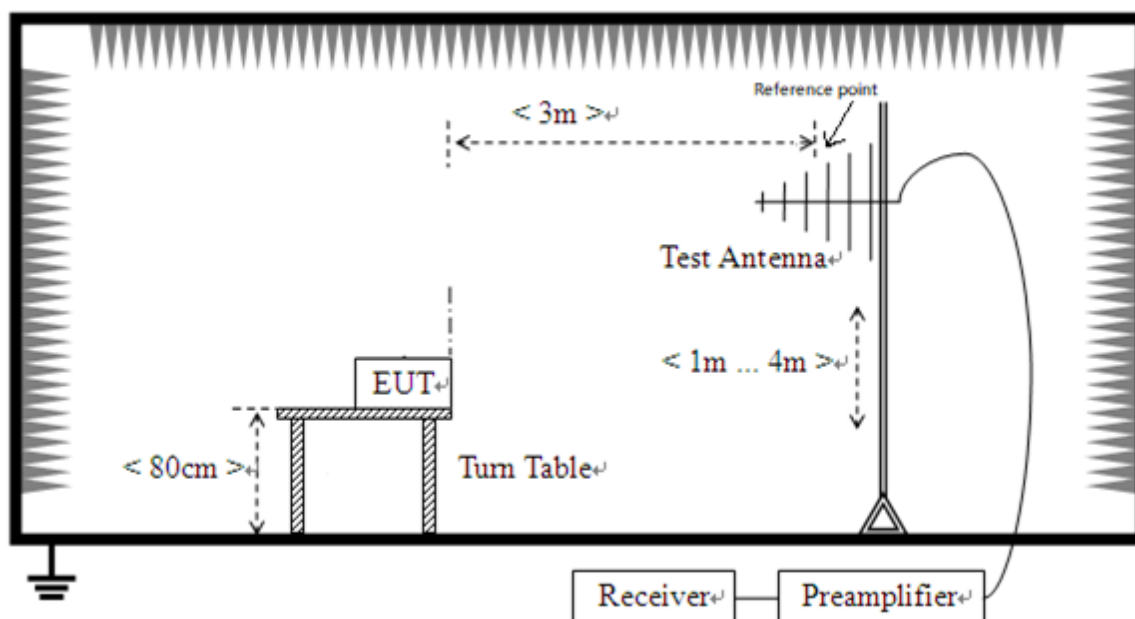
Mode 12	<u>The LTE Band 5 RX Test Mode</u> LTE Band 5 + EUT + Adapter + USB Cable + Battery + TF Card + Headset
Mode 13	<u>The LTE Band 8 RX Test Mode</u> LTE Band 8 + EUT + Adapter + USB Cable + Battery + TF Card + Headset
Mode 14	<u>The LTE Band 12 RX Test Mode</u> LTE Band 12 + EUT + Adapter + USB Cable + Battery + TF Card + Headset
Mode 15	<u>The LTE Band 12 RX Test Mode</u> LTE Band 13 + EUT + Adapter + USB Cable + Battery + TF Card + Headset
Mode 16	<u>The LTE Band 17 RX Test Mode</u> LTE Band 17 + EUT + Adapter + USB Cable + Battery + TF Card + Headset
Mode 17	<u>The LTE Band 26 RX Test Mode</u> LTE Band 26 + EUT + Adapter + USB Cable + Battery + TF Card + Headset
Mode 18	<u>The LTE Band 28 RX Test Mode</u> LTE Band 28 + EUT + Adapter + USB Cable + Battery + TF Card + Headset

Test Case	Test Mode Configuration	Worst Mode
Radiated Emission	Mode 1~Mode 18	1, 6
Conducted Emission, AC Ports	Mode 1~Mode 6 Mode 8~Mode 18	2, 6

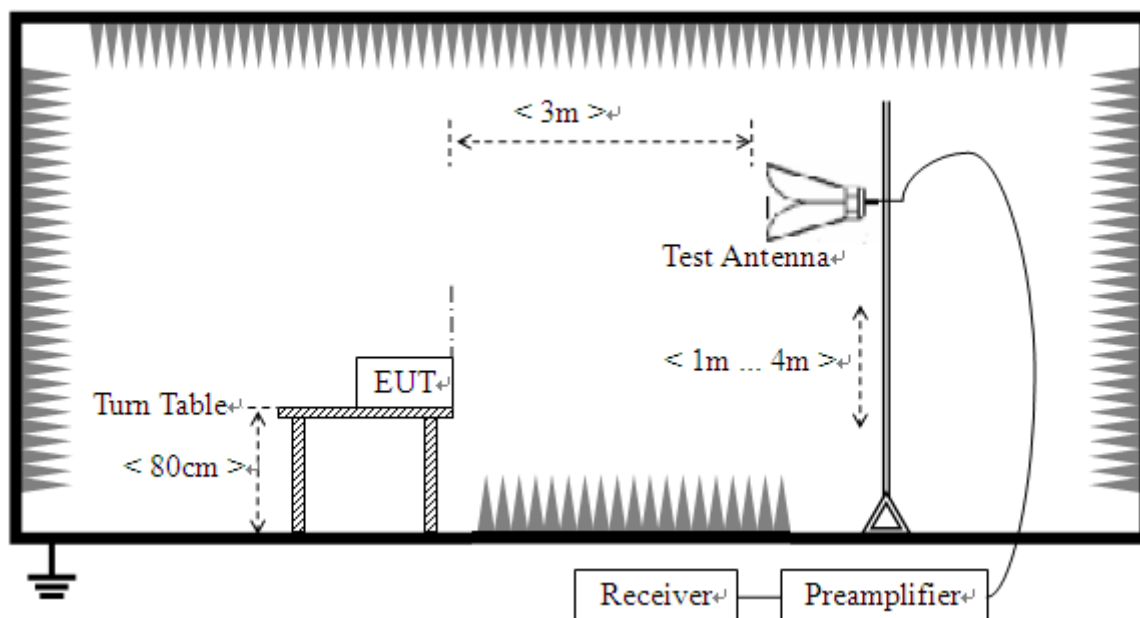
Note: All operation modes were tested, but only test data of the worst mode was presented in this report.

4.3 Test Setups

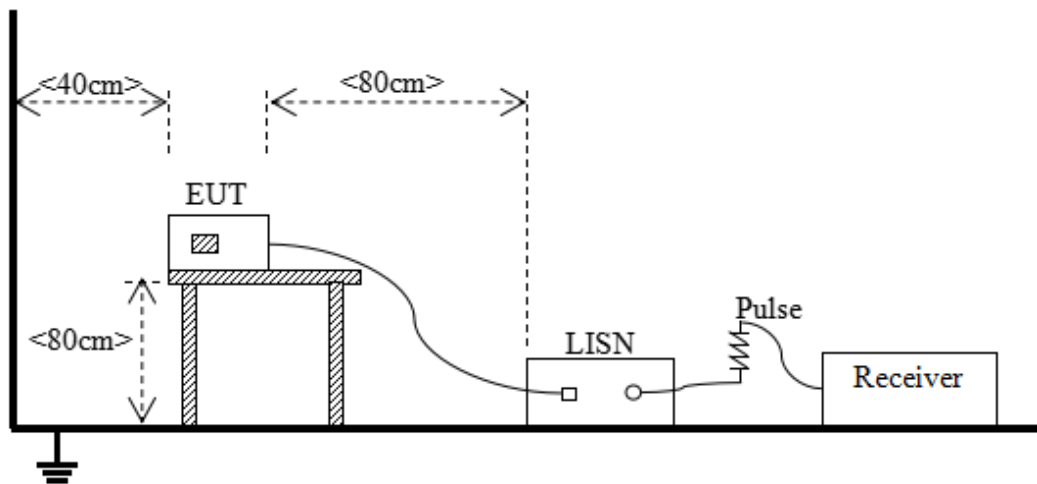
Test Setup 1



Radiated Emission (30 MHz-1 GHz)



Radiated Emission (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.

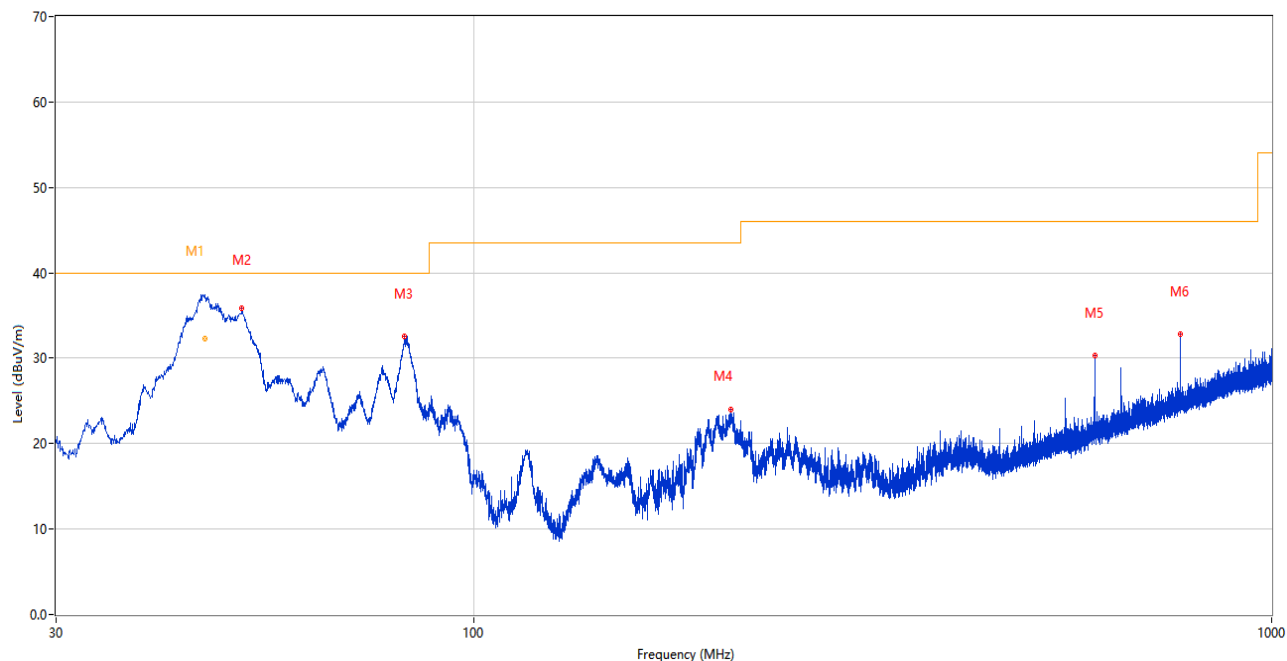
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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.	S43	Temperature	24.2℃
Humidity	40%RH	Pressure	101kPa
Test Engineer	Chen Jingran	Test Date	2025.05.13

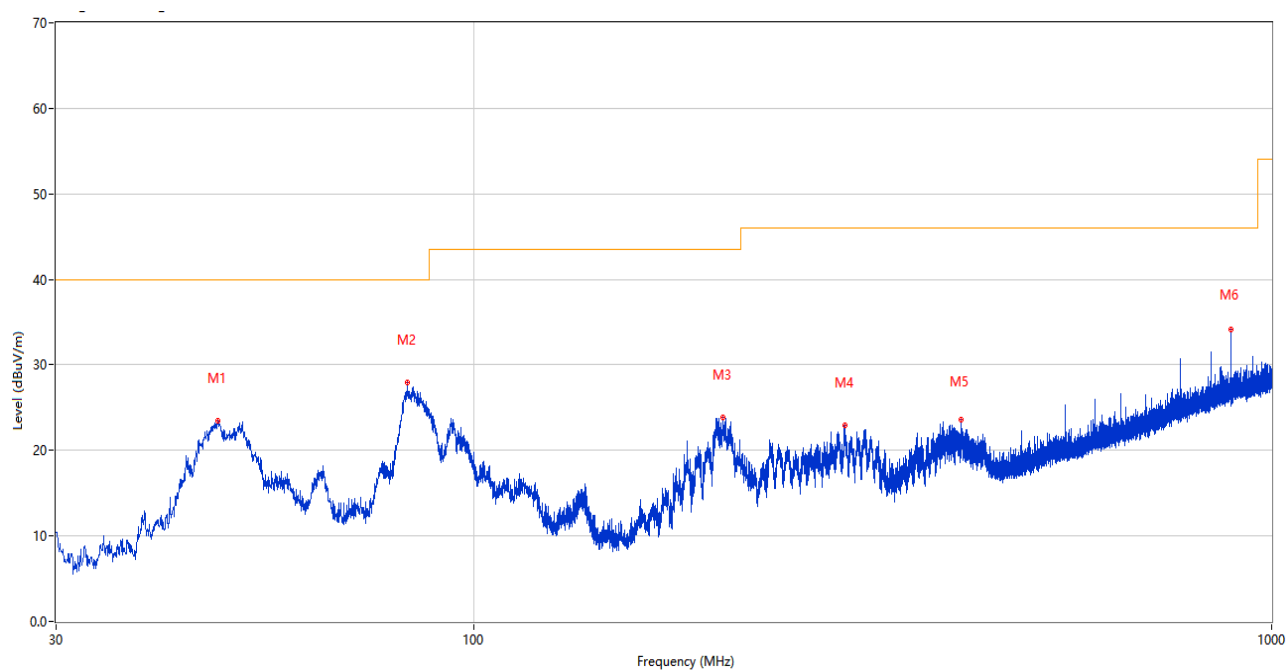
Test Mode 1

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	46.034	35.53	-26.01	40.0	4.47	Peak	322.00	101	Vertical	N/A
1*	46.034	32.24	-26.01	40.0	7.76	QP	322.00	101	Vertical	Pass
2	51.291	35.79	-24.00	40.0	4.21	Peak	177.00	100	Vertical	Pass
3	81.895	32.55	-30.23	40.0	7.45	Peak	16.00	100	Vertical	Pass
4	209.838	23.95	-26.57	43.5	19.55	Peak	311.00	100	Vertical	Pass
5	600.020	30.30	-15.91	46.0	15.70	Peak	324.00	100	Vertical	Pass
6	768.024	32.82	-12.54	46.0	13.18	Peak	121.00	100	Vertical	Pass

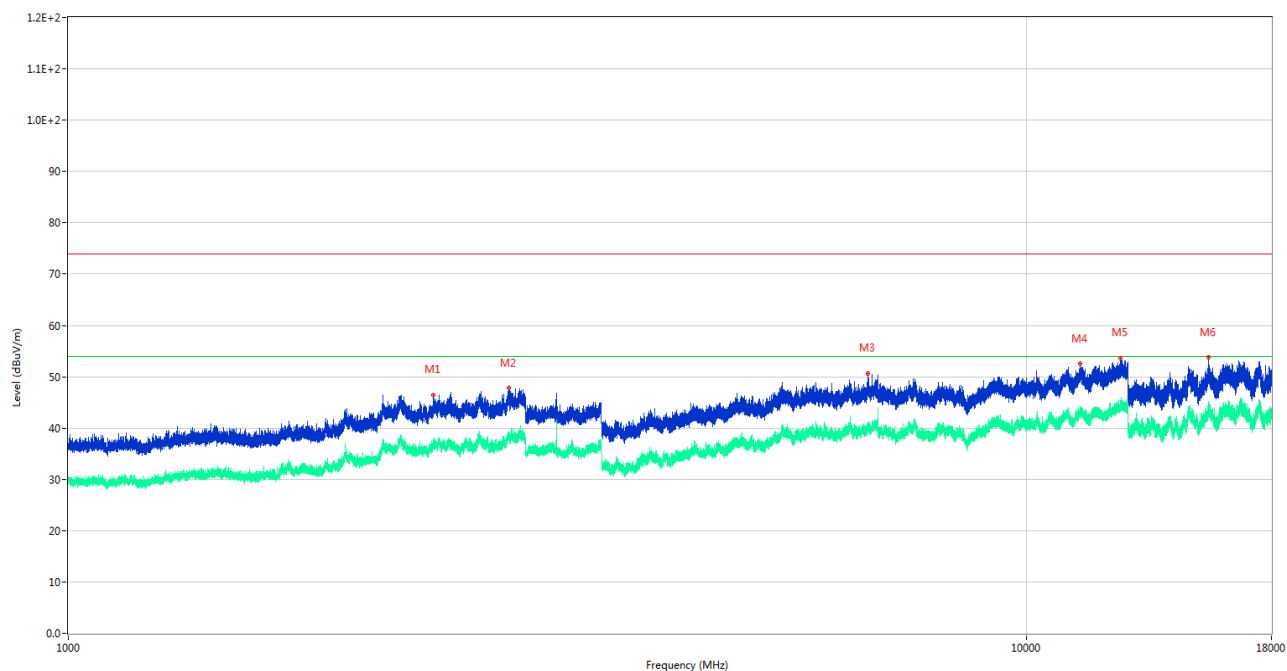
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	47.848	23.50	-24.86	40.0	16.50	Peak	37.00	100	Horizontal	Pass
2	82.574	27.94	-30.63	40.0	12.06	Peak	125.00	200	Horizontal	Pass
3	205.522	23.86	-26.51	43.5	19.64	Peak	244.00	100	Horizontal	Pass
4	292.385	22.98	-23.76	46.0	23.02	Peak	231.00	100	Horizontal	Pass
5	408.203	23.53	-20.76	46.0	22.47	Peak	229.00	100	Horizontal	Pass
6	889.662	34.09	-10.04	46.0	11.91	Peak	350.00	200	Horizontal	Pass

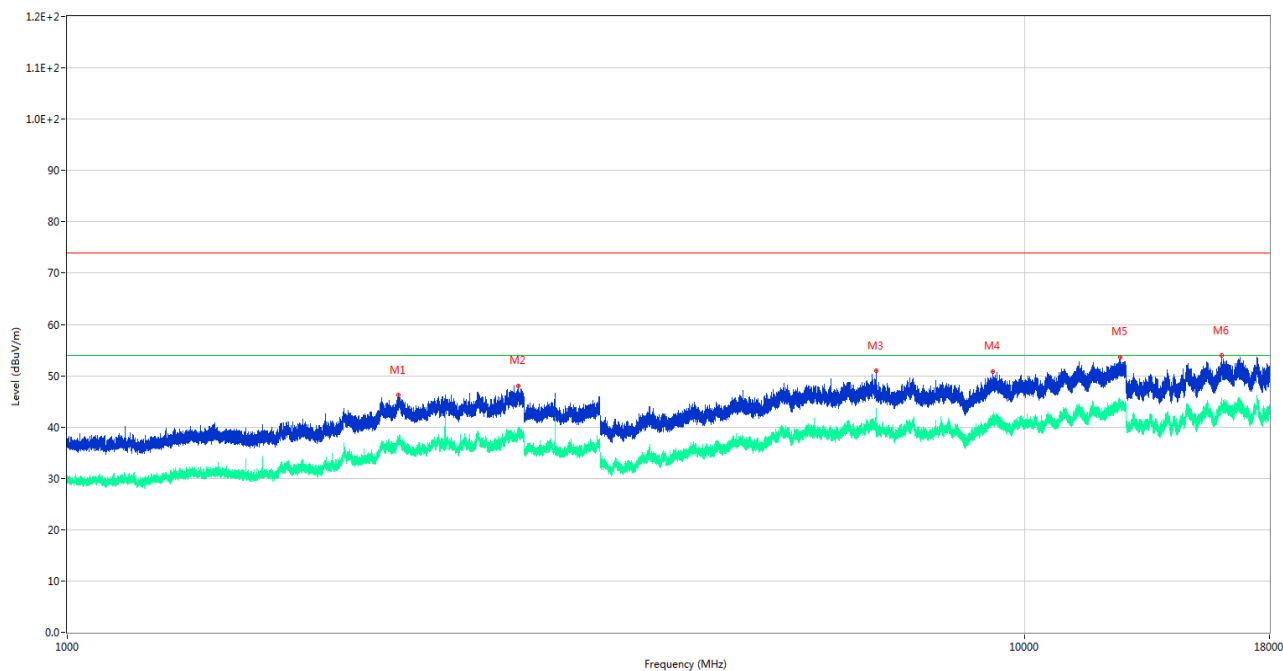
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2024.08.01	2025.07.31	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2024.11.28	2025.11.27	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	9168-00883	2025.03.23	2028.03.22	☒
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	2401.800	46.45	-9.26	74.0	27.55	Peak	259.50	100	Vertical	Pass
1**	2401.800	37.98	-9.26	54.0	16.02	AV	259.50	100	Vertical	Pass
2	2880.800	47.80	-6.33	74.0	26.20	Peak	75.10	100	Vertical	Pass
2**	2880.800	38.60	-6.33	54.0	15.40	AV	75.10	100	Vertical	Pass
3	6830.200	50.65	-1.03	74.0	23.35	Peak	2.50	100	Vertical	Pass
3**	6830.200	41.02	-1.03	54.0	12.98	AV	2.50	100	Vertical	Pass
4	11378.912	52.49	21.52	74.0	21.51	Peak	356.60	100	Vertical	Pass
4**	11378.912	44.26	21.52	54.0	9.74	AV	356.60	100	Vertical	Pass
5	12516.550	53.67	21.35	74.0	20.33	Peak	23.10	100	Vertical	Pass
5**	12516.550	43.61	21.35	54.0	10.39	AV	23.10	100	Vertical	Pass
6	15488.663	53.70	24.97	74.0	20.30	Peak	332.70	100	Vertical	Pass
6**	15488.663	42.96	24.97	54.0	11.04	AV	332.70	100	Vertical	Pass

4) Test Antenna Horizontal, 1 GHz – 18 GHz

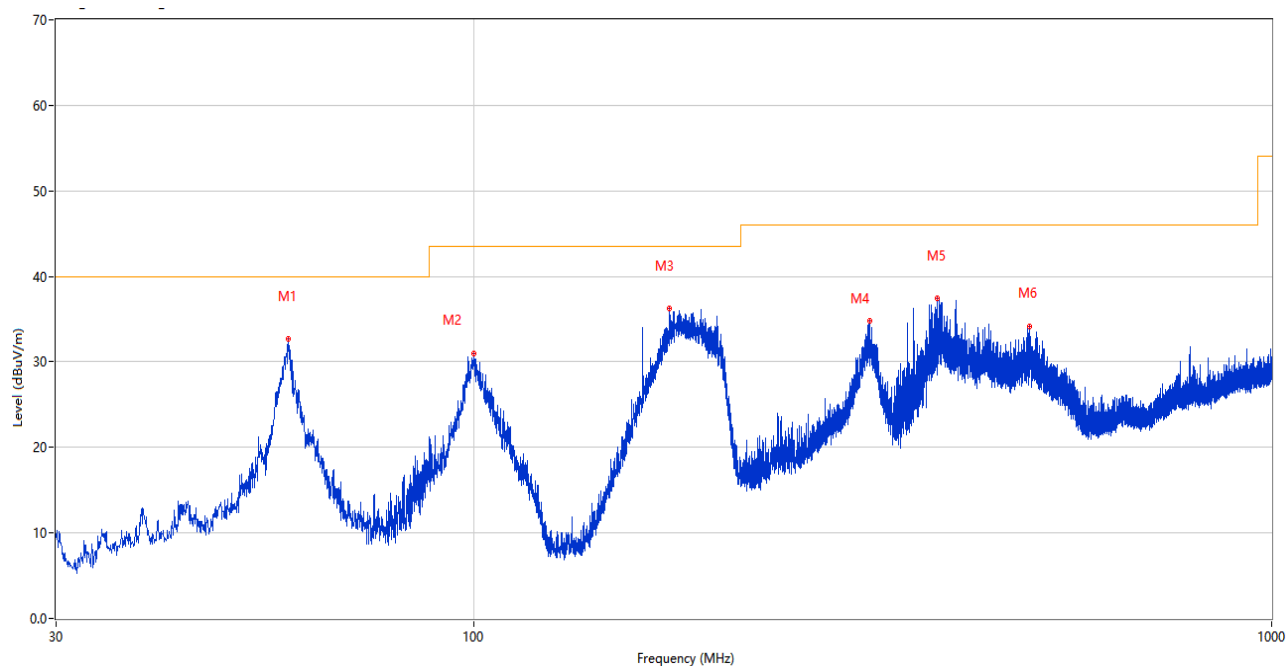


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2214.800	46.21	-8.79	74.0	27.79	Peak	351.40	100	Horizontal	Pass
1**	2214.800	37.14	-8.79	54.0	16.86	AV	351.40	100	Horizontal	Pass
2	2958.100	48.01	-5.56	74.0	25.99	Peak	191.00	100	Horizontal	Pass
2**	2958.100	38.24	-5.56	54.0	15.76	AV	191.00	100	Horizontal	Pass
3	6998.600	50.95	0.45	74.0	23.05	Peak	359.10	100	Horizontal	Pass
3**	6998.600	42.03	0.45	54.0	11.97	AV	359.10	100	Horizontal	Pass
4	9247.674	50.82	19.69	74.0	23.18	Peak	276.00	100	Horizontal	Pass
4**	9247.674	40.78	19.69	54.0	13.22	AV	276.00	100	Horizontal	Pass
5	12580.950	53.66	21.98	74.0	20.34	Peak	287.70	100	Horizontal	Pass
5**	12580.950	44.67	21.98	54.0	9.33	AV	287.70	100	Horizontal	Pass
6	16036.237	53.92	25.67	74.0	20.08	Peak	132.10	100	Horizontal	Pass
6**	16036.237	44.09	25.67	54.0	9.91	AV	132.10	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	/		☒

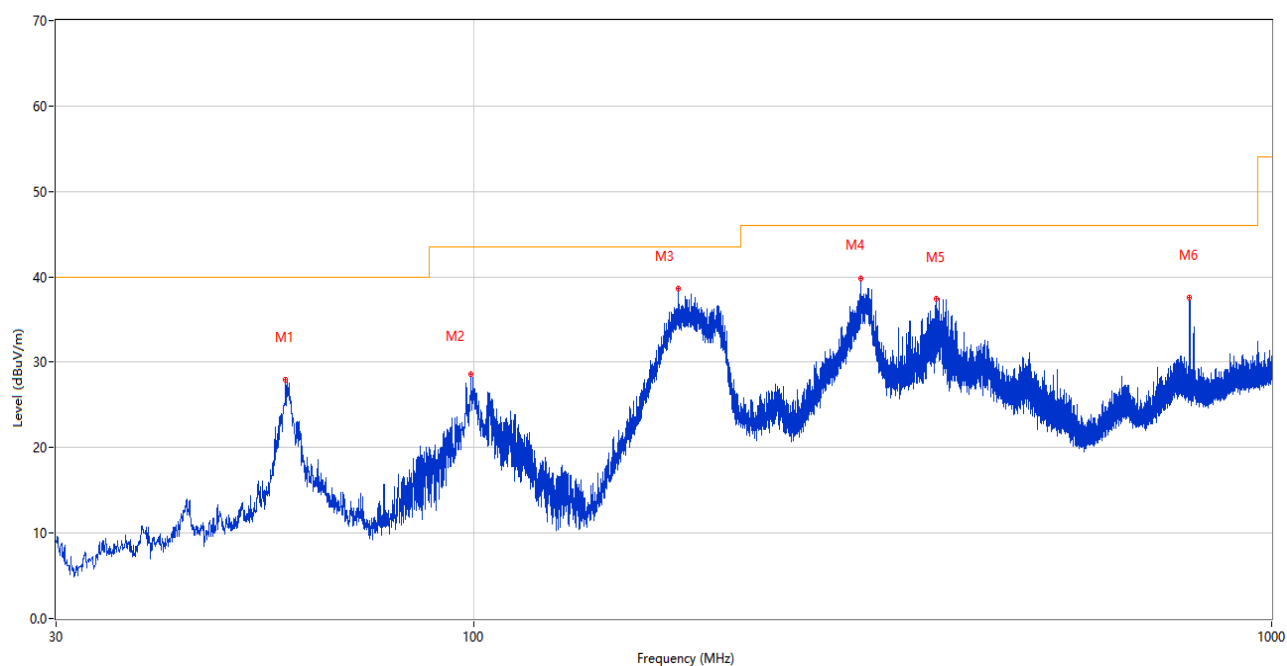
Test Mode 6

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	58.566	32.76	-26.40	40.0	7.24	Peak	107.00	100	Vertical	Pass
2	100.082	31.00	-26.70	43.5	12.50	Peak	323.00	100	Vertical	Pass
3	176.179	36.28	-28.48	43.5	7.22	Peak	259.00	100	Vertical	Pass
4	313.628	34.78	-23.32	46.0	11.22	Peak	106.00	200	Vertical	Pass
5	381.091	37.39	-21.45	46.0	8.61	Peak	360.00	100	Vertical	Pass
6	497.006	34.09	-18.83	46.0	11.91	Peak	161.00	100	Vertical	Pass

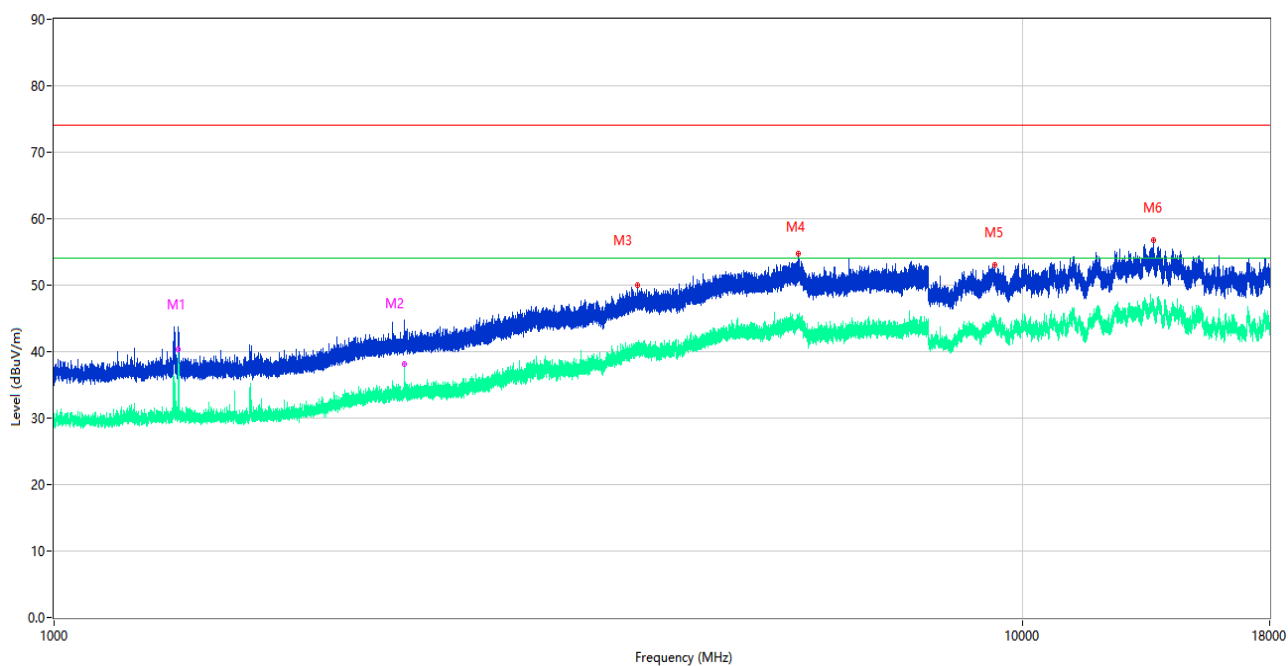
6) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	58.081	27.95	-26.68	40.0	12.05	Peak	148.00	200	Horizontal	Pass
2	99.307	28.57	-26.79	43.5	14.93	Peak	34.00	200	Horizontal	Pass
3	180.398	38.56	-28.28	43.5	4.94	Peak	58.00	100	Horizontal	Pass
4	306.014	39.84	-23.40	46.0	6.16	Peak	271.00	100	Horizontal	Pass
5	380.122	37.38	-21.57	46.0	8.62	Peak	30.00	100	Horizontal	Pass
6	788.977	37.56	-11.97	46.0	8.44	Peak	141.00	100	Horizontal	Pass

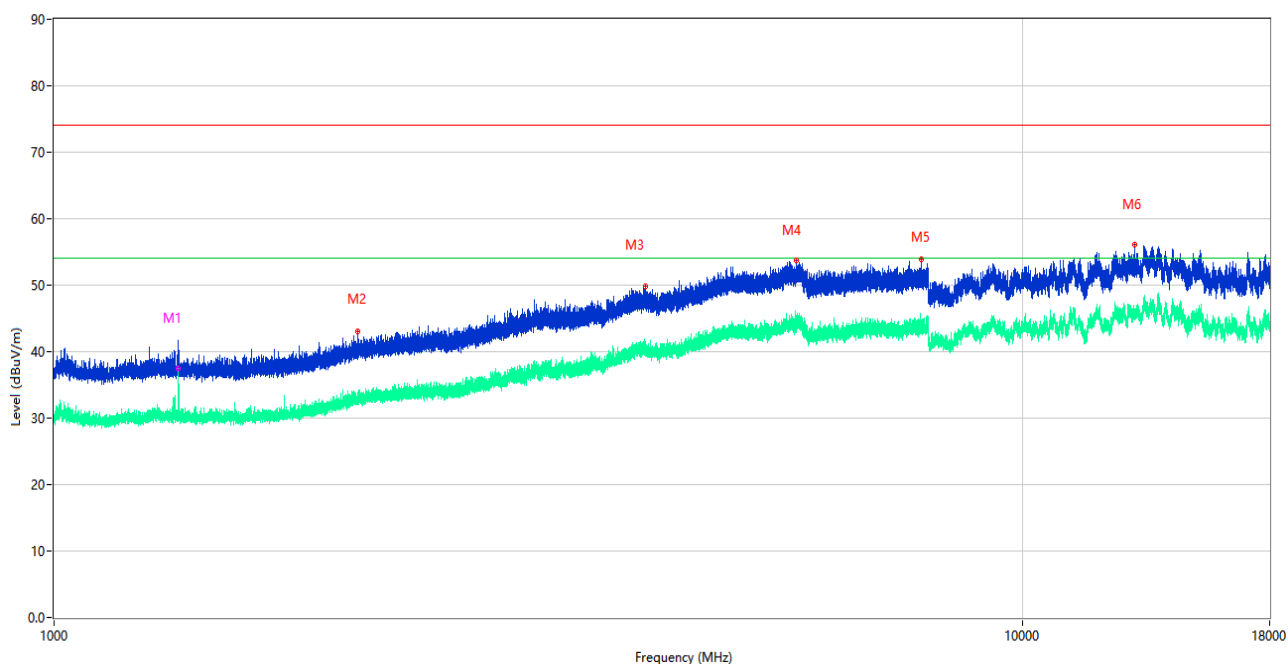
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2024.08.01	2025.07.31	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2024.11.28	2025.11.27	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	9168-00883	2025.03.23	2028.03.22	☒
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	1343.850	42.22	-15.50	74.0	31.78	Peak	177.00	150	Vertical	Pass
1**	1343.850	40.40	-15.50	54.0	13.60	AV	177.00	150	Vertical	Pass
2	2300.780	44.72	-11.61	74.0	29.28	Peak	126.00	150	Vertical	Pass
2**	2300.780	38.10	-11.61	54.0	15.90	AV	126.00	150	Vertical	Pass
3	4002.160	50.01	-2.18	74.0	23.99	Peak	288.00	150	Vertical	Pass
3**	4002.160	40.77	-2.18	54.0	13.23	AV	288.00	150	Vertical	Pass
4	5862.920	54.68	2.47	74.0	19.32	Peak	33.00	150	Vertical	Pass
4**	5862.920	44.88	2.47	54.0	9.12	AV	33.00	150	Vertical	Pass
5	9370.500	52.97	1.99	74.0	21.03	Peak	82.00	150	Vertical	Pass
5**	9370.500	43.36	1.99	54.0	10.64	AV	82.00	150	Vertical	Pass
6	13654.500	56.72	5.00	74.0	17.28	Peak	328.00	150	Vertical	Pass
6**	13654.500	46.80	5.00	54.0	7.20	AV	328.00	150	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	1344.240	40.56	-15.51	74.0	33.44	Peak	200.00	150	Horizontal	Pass
1**	1344.240	37.53	-15.51	54.0	16.47	AV	200.00	150	Horizontal	Pass
2	2059.110	42.99	-12.33	74.0	31.01	Peak	174.00	150	Horizontal	Pass
2**	2059.110	33.11	-12.33	54.0	20.89	AV	174.00	150	Horizontal	Pass
3	4076.080	49.77	-1.60	74.0	24.23	Peak	351.00	150	Horizontal	Pass
3**	4076.080	39.33	-1.60	54.0	14.67	AV	351.00	150	Horizontal	Pass
4	5847.740	53.76	2.24	74.0	20.24	Peak	251.00	150	Horizontal	Pass
4**	5847.740	44.61	2.24	54.0	9.39	AV	251.00	150	Horizontal	Pass
5	7855.680	53.82	1.15	74.0	20.18	Peak	0.00	150	Horizontal	Pass
5**	7855.680	44.24	1.15	54.0	9.76	AV	0.00	150	Horizontal	Pass
6	13061.000	56.02	3.17	74.0	17.98	Peak	246.00	150	Horizontal	Pass
6**	13061.000	45.89	3.17	54.0	8.11	AV	246.00	150	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	/		☒

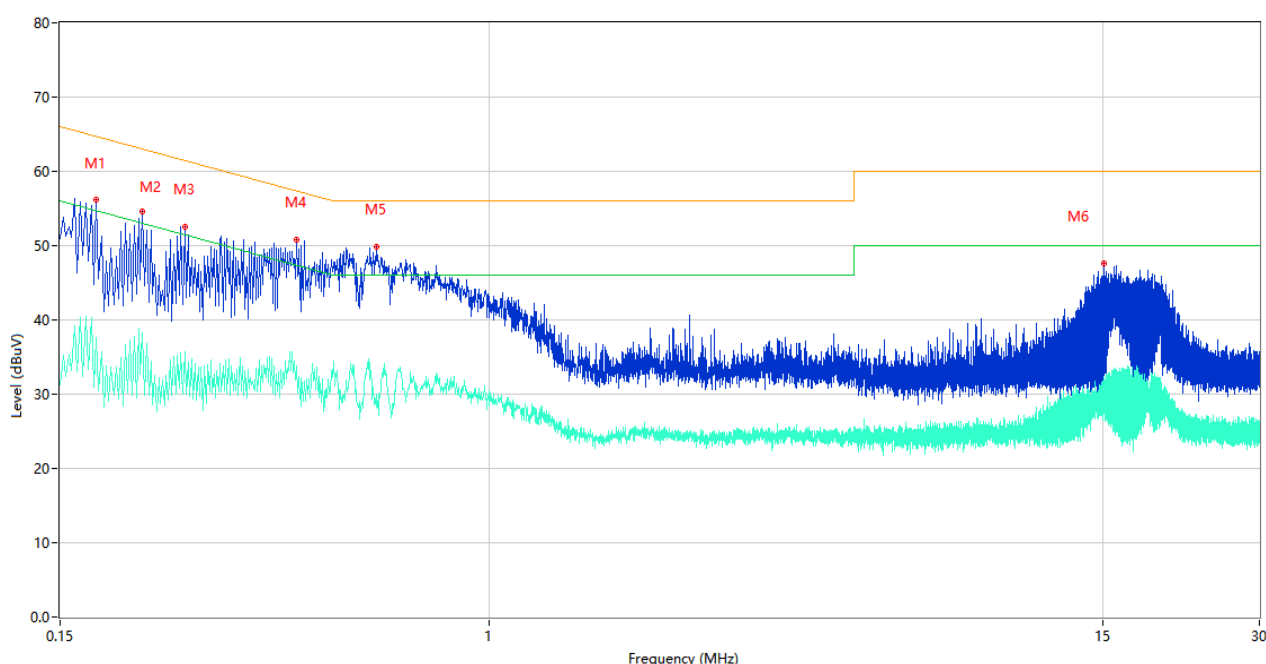
A.2 Conducted Emission, AC Ports

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.	S43	Temperature	21.2℃
Humidity	56%RH	Pressure	101kPa
Test Engineer	Yang Panxia	Test Date	2025.05.08

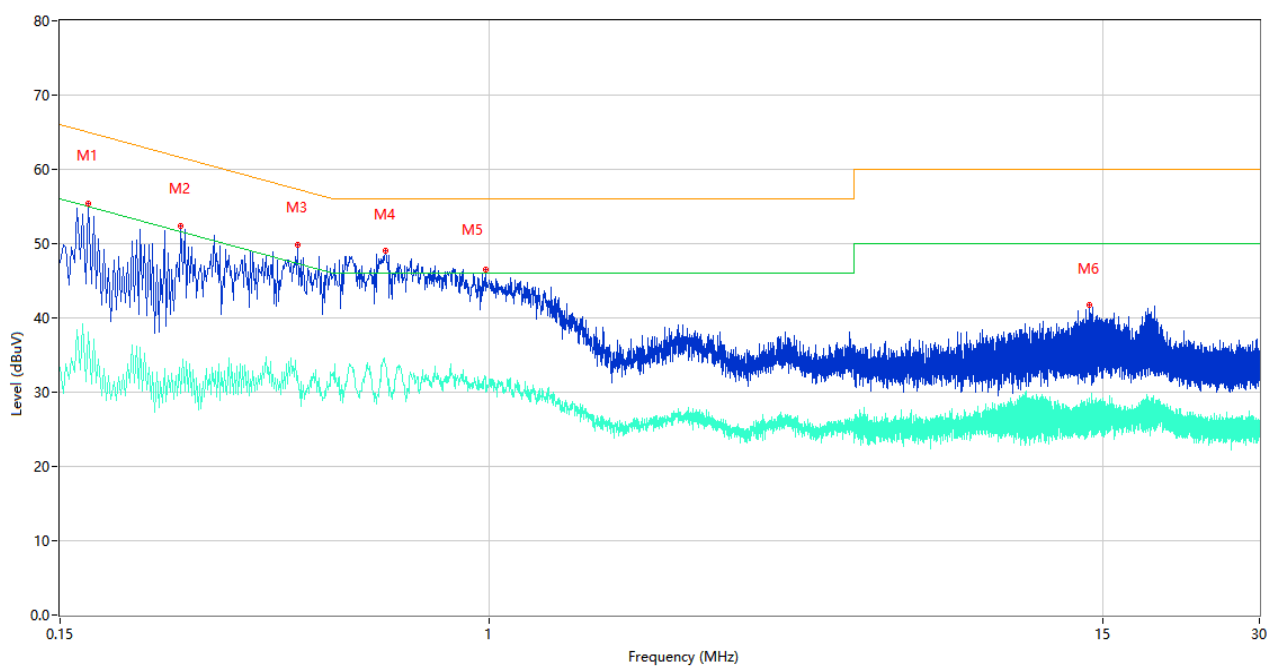
Test Mode 2

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.176	56.27	9.78	64.67	8.40	Peak	L	Pass
1**	0.176	37.56	9.78	54.67	17.11	AV	L	Pass
2	0.216	54.62	9.77	62.97	8.35	Peak	L	Pass
2**	0.216	38.31	9.77	52.97	14.66	AV	L	Pass
3	0.260	52.59	9.76	61.43	8.84	Peak	L	Pass
3**	0.260	35.69	9.76	51.43	15.74	AV	L	Pass
4	0.426	50.80	10.28	57.33	6.53	Peak	L	Pass
4**	0.426	33.85	10.28	47.33	13.48	AV	L	Pass
5	0.606	49.88	10.17	56.00	6.12	Peak	L	Pass
5**	0.606	29.96	10.17	46.00	16.04	AV	L	Pass
6	15.134	47.56	10.71	60.00	12.44	Peak	L	Pass
6**	15.134	28.66	10.71	50.00	21.34	AV	L	Pass

2) AC Ports - N Phase

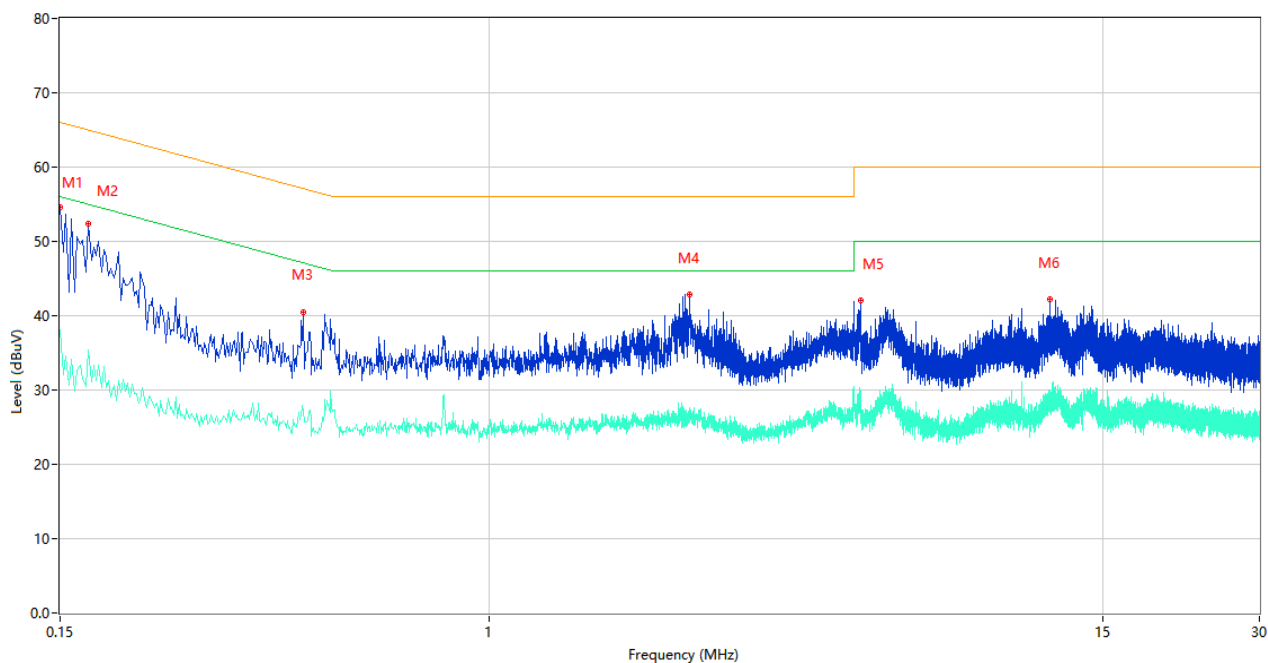


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.170	55.32	9.78	64.96	9.64	Peak	N	Pass
1**	0.170	38.05	9.78	54.96	16.91	AV	N	Pass
2	0.256	52.46	9.77	61.56	9.10	Peak	N	Pass
2**	0.256	29.84	9.77	51.56	21.72	AV	N	Pass
3	0.428	49.84	10.26	57.29	7.45	Peak	N	Pass
3**	0.428	32.29	10.26	47.29	15.00	AV	N	Pass
4	0.632	49.04	10.19	56.00	6.96	Peak	N	Pass
4**	0.632	33.77	10.19	46.00	12.23	AV	N	Pass
5	0.982	46.44	10.00	56.00	9.56	Peak	N	Pass
5**	0.982	32.03	10.00	46.00	13.97	AV	N	Pass
6	14.156	41.72	10.78	60.00	18.28	Peak	N	Pass
6**	14.156	27.29	10.78	50.00	22.71	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	2025.04.29	2026.04.28	☒
ISN	TESEQ	ISN T800	34449	2024.11.06	2025.11.05	☐
Shielded Room	YiHeng Electronic Co., Ltd	3.5m*3.1m*2. 8m	112	2025.02.14	2028.02.13	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

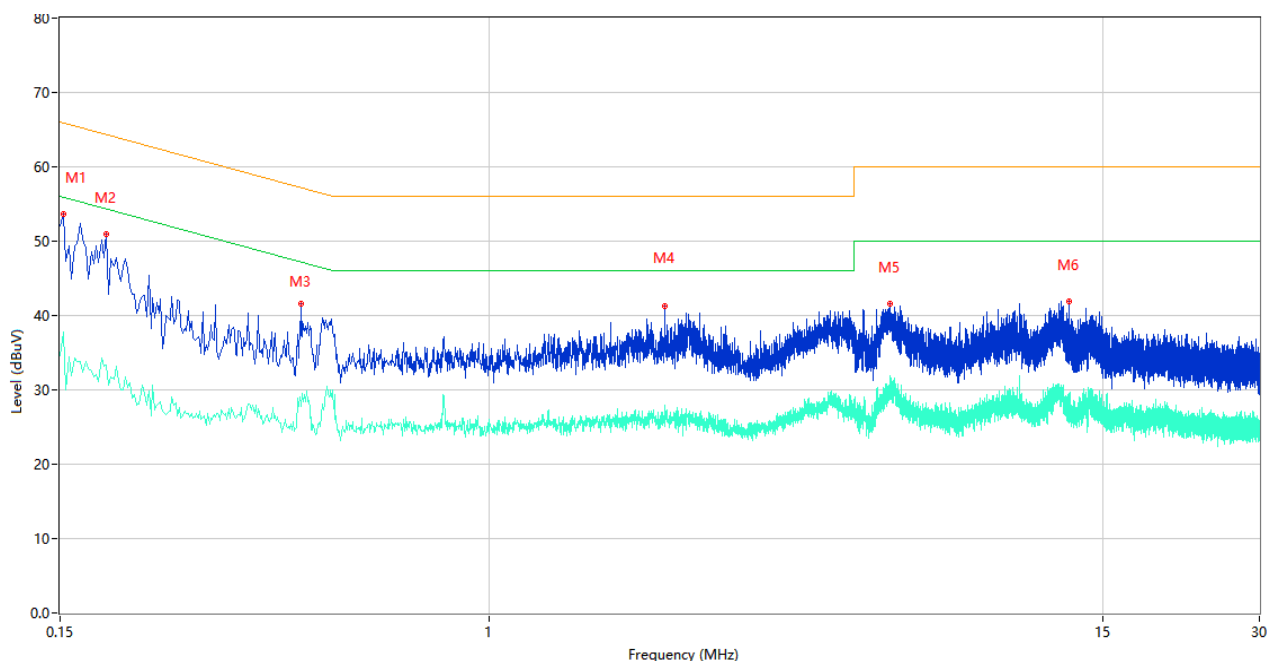
Test Mode 6

3) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.150	54.59	9.78	66.00	11.41	Peak	L	Pass
1**	0.150	38.04	9.78	56.00	17.96	AV	L	Pass
2	0.170	52.44	9.78	64.96	12.52	Peak	L	Pass
2**	0.170	35.39	9.78	54.96	19.57	AV	L	Pass
3	0.440	40.53	10.13	57.06	16.53	Peak	L	Pass
3**	0.440	27.29	10.13	47.06	19.77	AV	L	Pass
4	2.418	42.93	10.25	56.00	13.07	Peak	L	Pass
4**	2.418	27.57	10.25	46.00	18.43	AV	L	Pass
5	5.148	42.04	10.18	60.00	17.96	Peak	L	Pass
5**	5.148	26.81	10.18	50.00	23.19	AV	L	Pass
6	11.906	42.17	10.59	60.00	17.83	Peak	L	Pass
6**	11.906	27.13	10.59	50.00	22.87	AV	L	Pass

4) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	53.63	9.78	65.89	12.26	Peak	N	Pass
1**	0.152	37.72	9.78	55.89	18.17	AV	N	Pass
2	0.184	50.88	9.78	64.30	13.42	Peak	N	Pass
2**	0.184	33.31	9.78	54.30	20.99	AV	N	Pass
3	0.436	41.59	10.17	57.14	15.55	Peak	N	Pass
3**	0.436	27.72	10.17	47.14	19.42	AV	N	Pass
4	2.172	41.20	10.10	56.00	14.80	Peak	N	Pass
4**	2.172	27.89	10.10	46.00	18.11	AV	N	Pass
5	5.878	41.53	10.39	60.00	18.47	Peak	N	Pass
5**	5.878	30.75	10.39	50.00	19.25	AV	N	Pass
6	12.964	41.86	10.60	60.00	18.14	Peak	N	Pass
6**	12.964	28.02	10.60	50.00	21.98	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	2025.04.29	2026.04.28	☒
ISN	TESEQ	ISN T800	34449	2024.11.06	2025.11.05	☐
Shielded Room	YiHeng Electronic Co., Ltd	3.5m*3.1m*2. 8m	112	2025.02.14	2028.02.13	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2531395-AE.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2531395-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2531395-AI.PDF”.

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--END OF REPORT--