

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-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: Xin Liao

Checked by: Liu Zhenxiang

Approved by: Sunny Zou
(Technical Director)

Xin Liao

Liu Zhenxiang

Sunny Zou

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Aug. 13, 2024</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1 GENERAL INFORMATION.....	4
1.1 Test Laboratory	4
1.2 Test Location.....	4
2 PRODUCT INFORMATION	5
2.1 Applicant Information.....	5
2.2 Manufacturer Information	5
2.3 General Description for Equipment under Test (EUT)	5
2.4 Ancillary Equipment.....	5
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.....	35
ANNEX C EUT EXTERNAL PHOTOS.....	35

ANNEX D EUT INTERNAL PHOTOS.....	35
----------------------------------	----

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
	Manufacturer	Guiyang Joetide Electronics Co., Ltd
	Rated Input	100-240V ~ 50/60Hz, 0.6A
	Rated Output	5.0V $\overline{\text{---}}$ 2.4A or 7.5V $\overline{\text{---}}$ 2.4A 18.0W Max
Ancillary Equipment 3	Adapter 2	

	Brand Name	N/A
	Model No.	U180XSA
	Manufacturer	JIANGSU CHENYANG ELECTRON CO LTD
	Rated Input	100-240V ~ 50/60Hz, 0.6A
	Rated Output	5.0V $\equiv$ 2.4A or 7.5V $\equiv$ 2.4A 18.0W Max
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 (Guiyang Joetide Electronics 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 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, SBAS, 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	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.

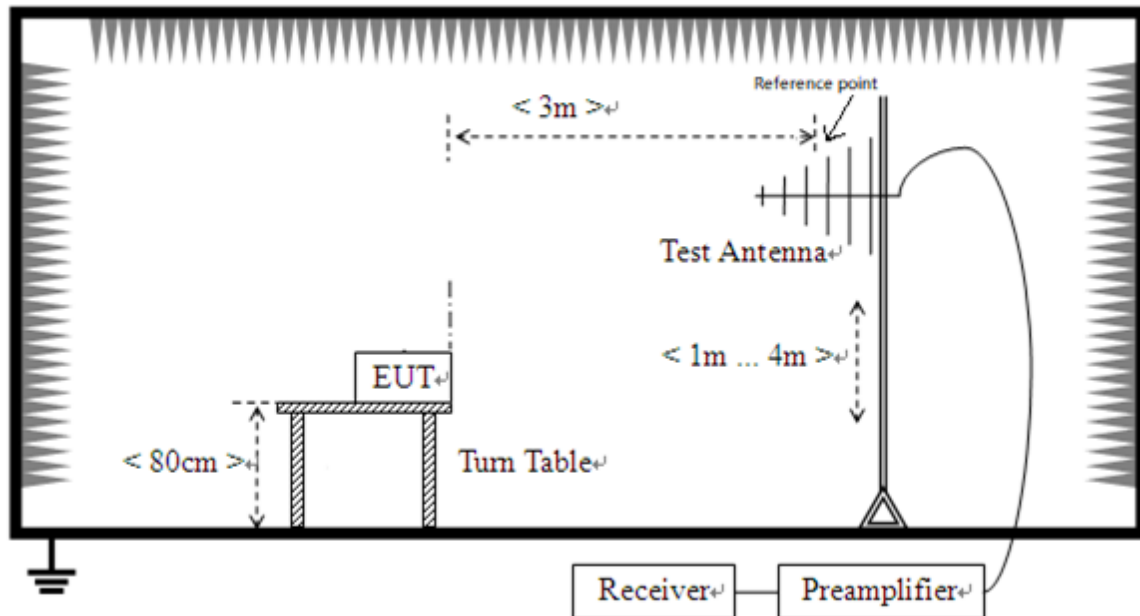
Test Mode Configuration	Description
Mode 1	<u>The Charging Test Mode</u> EUT + Adapter + USB Cable + Battery
Mode 2	<u>The Front Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + SD Card
Mode 3	<u>The Back Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + SD Card
Mode 4	<u>The Video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

Test Case	Test Mode Configuration	Worst Mode
Radiated Emission	Mode 1~Mode 9	4, 7

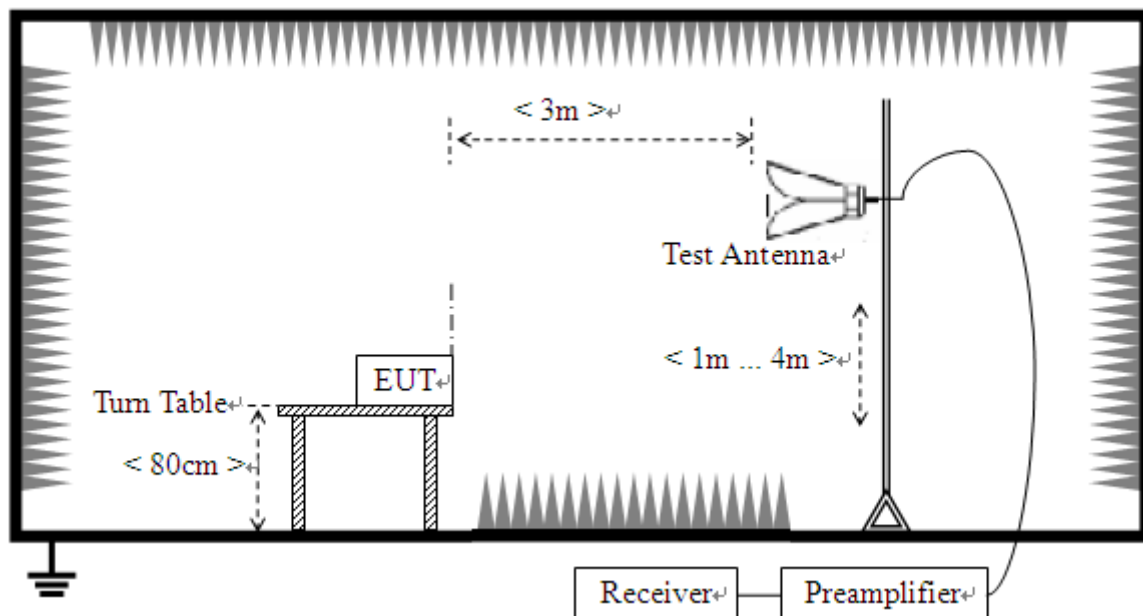
Test Case	Test Mode Configuration	Worst Mode
Conducted Emission, AC Ports	Mode 1~Mode 7	1, 7
Note: All operation modes were tested, but only test data of the worst mode was presented in this report.		

4.3 Test Setups

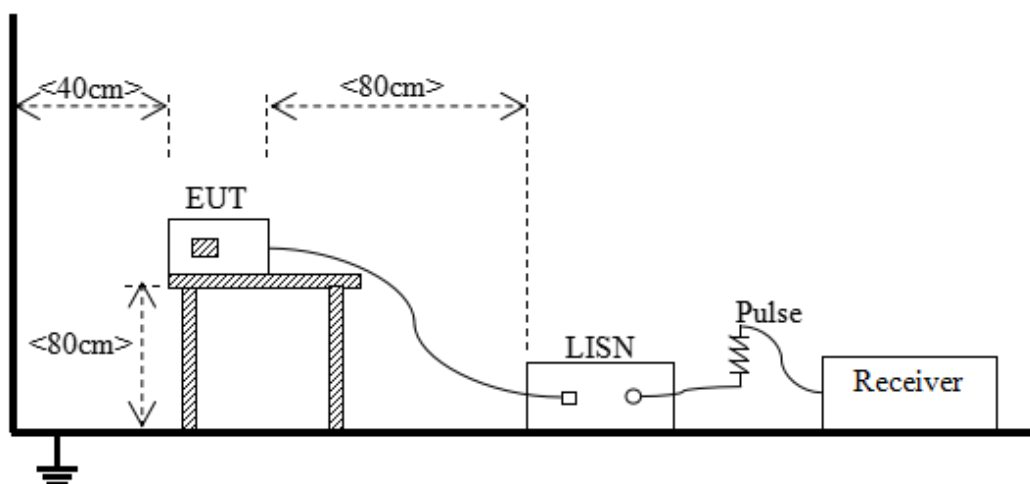
Test Setup 1



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 ($\mu\text{V/m}$)	Field Strength (dB $\mu\text{V/m}$)	Field Strength (dB $\mu\text{V/m}$)
30 - 88	100	40	49.5
88 - 216	150	43.5	54
216 - 960	200	46	56.9
Above 960	500	54	60

NOTE:

- 1) Field Strength (dB $\mu\text{V/m}$) = $20 \times \log [\text{Field Strength } (\mu\text{V/m})]$.
- 2) In the emission tables above, the tighter limit applies at the band edges.
- 3) For 30 MHz to 1000 MHz, the CISPR quasi-peak is employed.

For above 1000 MHz, according to the requirements of FCC 15.35, unless otherwise specified, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.

Frequency range (GHz)	Class B (at 3 m)			Class A (at 3 m)	
	Field Strength ($\mu\text{V/m}$)	Field Strength Average (dB $\mu\text{V/m}$)	Field Strength Peak (dB $\mu\text{V/m}$)	Field Strength Average (dB $\mu\text{V/m}$)	Field Strength Peak (dB $\mu\text{V/m}$)
1 - F_M	500	54	74	60	80

Note 1: The highest measurement frequency, F_M , in GHz, shall be determined as next Table.

Note 2: Average Class A limit at 3m L_{3m} is determined by the following conversion formula:

$$L_{3m} = L_{10m} + 20 \times \log(d_{10m}/d_{3m})$$
Where:
 L_{3m} is Average Class A limit at 3m;
 L_{10m} is Average Class A limit at 10m;
 d_{10m} is Measurement distance in 10m;
 d_{3m} is Measurement distance in 3m.
For this case: $L_{3m} = 49.5 + 20 \times \log(10/3) = 60$ (dB $\mu\text{V/m}$).

Highest internal frequency (F_X)	Highest measurement frequency (F_M)
$F_X \leq 108 \text{ MHz}$	1 GHz
$108 \text{ MHz} \leq F_X \leq 500 \text{ MHz}$	2 GHz
$500 \text{ MHz} \leq F_X \leq 1 \text{ GHz}$	5 GHz
$F_X \geq 1 \text{ GHz}$	$5 * F_X$ or 40 GHz, whichever is lower.
Note: F_X is Highest frequency generated or used in the device or on which the device operates or tunes.	

5.1.1.2 Test Setup

Refer to 4.3 section (test setup 1) for radiated emission test, the photo of test setup please refer to ANNEX B.

5.1.1.3 Test Procedure

All Radiated Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

An initial pre-scan was performed in the chamber using the EMI Receiver in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bi-Log antenna with 2 orthogonal polarities.

The measurement frequency range is from 30 MHz to the 5th harmonic of the maximum frequency of the EUT internal source. The Turn Table is actuated to turn from 0° to 360° , and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1 \text{ GHz}$, 100 kHz for $f < 1 \text{ GHz}$

VBW $\geq$ RBW

Sweep = auto

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

Trace = max hold

5.1.1.4 Test Result and Test Equipment List

Please refer to ANNEX A.1.

NOTE:

1. Results (dB μ V/m) = Reading (dB μ V) + Factor (dB/m)

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

2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain (dB)

3. Margin = Limit - Results

5.1.2 Conducted Emission, AC Ports

5.1.2.1 Test Limit

Frequency range (MHz)	Class A	
	Quasi-peak (dB μ V)	Average (dB μ V)
0.15 - 0.50	79	66
0.50 - 30	73	60

Frequency range (MHz)	Class B	
	Quasi-peak (dB μ V)	Average (dB μ V)
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

- 1) The lower limit shall apply at the band edges.
- 2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50 MHz.

5.1.2.2 Test Setup

Refer to 4.3 section test (test setup 2) for conducted emission, the photo of test setup please refer to ANNEX B.

5.1.2.3 Test Procedure

The EUT is connected to the power mains through a LISN which provides 50 Ω /50 μ H of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

Use the following spectrum analyzer settings:

RBW = 9 kHz

VBW $\geq$ RBW

Sweep = 10ms

Detector function = peak & Average

Trace = max hold

5.1.2.4 Test Result and Test Equipment List

Please refer to ANNEX A.2.

NOTE:

1. Results (dB μ V) = Reading (dB μ V) + Factor (dB)

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

2. Factor = Insertion loss + Cable loss

3. Margin = Limit - Results

ANNEX A TEST RESULTS

A.1 Radiated Emission

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

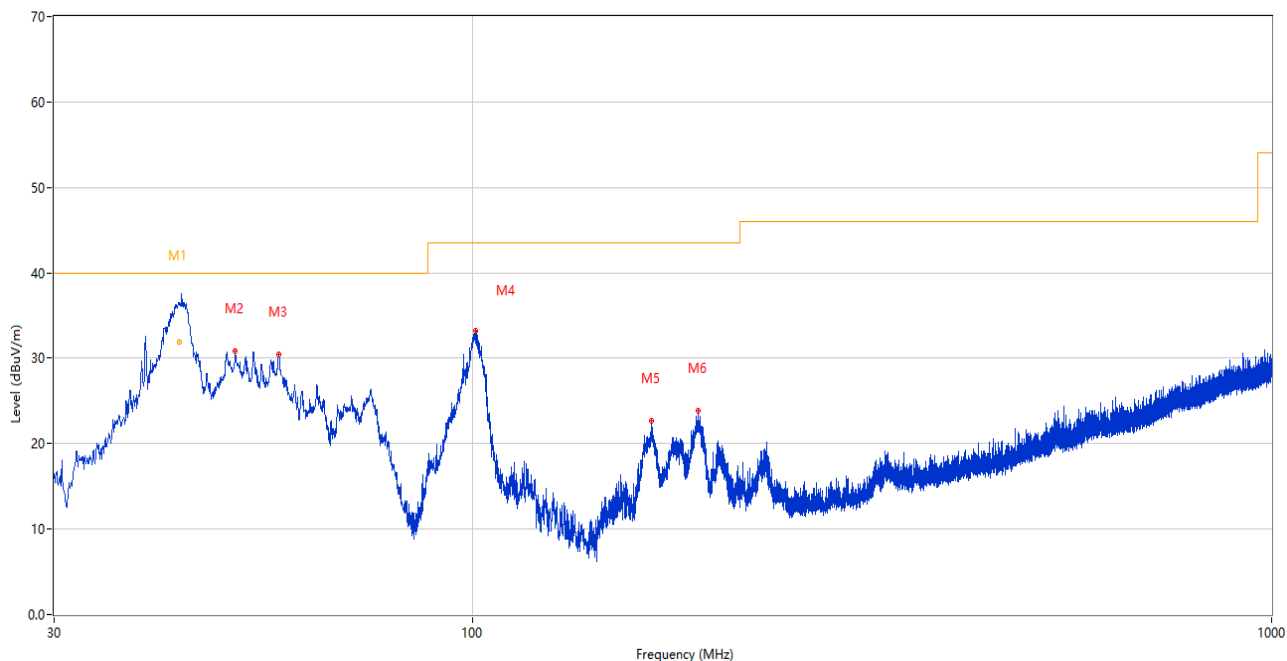
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: The Radiated Emission is required to be investigated to the upper frequency of 5th harmonic of the highest internal frequency of EUT or 40 GHz, whichever is lower. The test results above 18GHz are only noise and are not recorded in the report.

Sample No.	S02, S06	Temperature	22.7℃
Humidity	39%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2024.06.26 – 2024.07.09

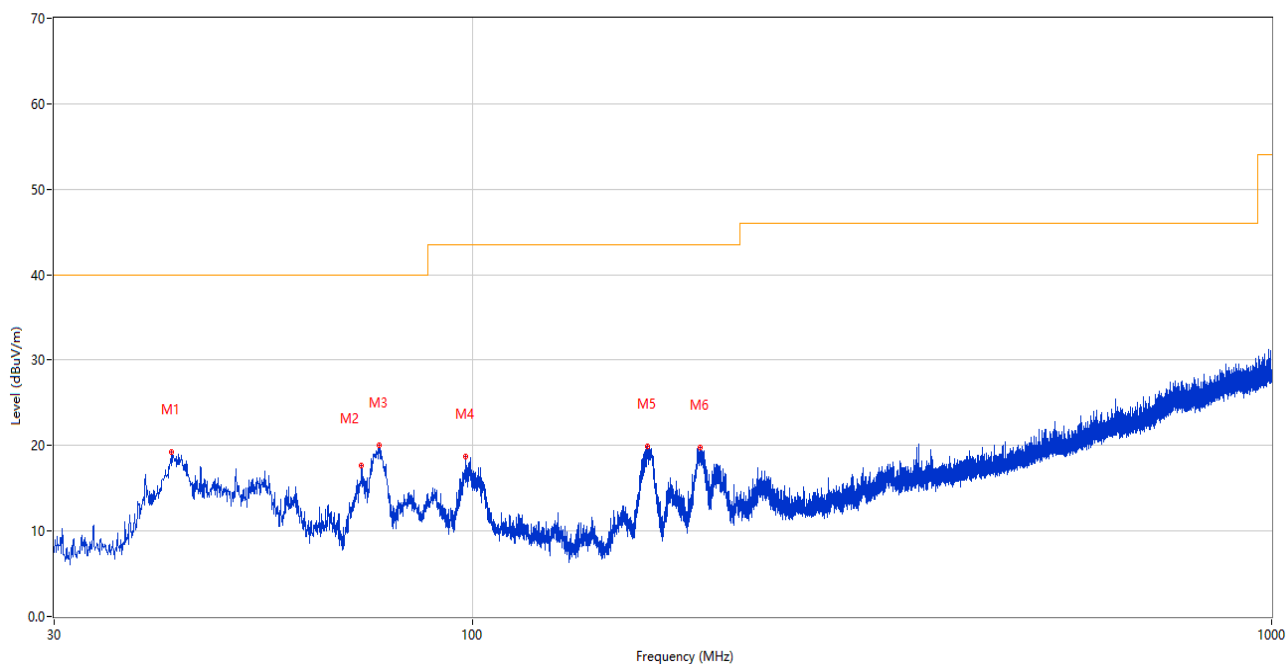
Test Mode 4

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	42.979	35.59	-25.75	40.0	4.41	Peak	171.00	111	Vertical	N/A
1*	42.979	31.87	-25.75	40.0	8.13	QP	171.00	111	Vertical	Pass
2	50.564	30.86	-25.54	40.0	9.14	Peak	206.00	100	Vertical	Pass
3	57.354	30.48	-26.42	40.0	9.52	Peak	187.00	100	Vertical	Pass
4	100.955	33.19	-26.72	43.5	10.31	Peak	190.00	100	Vertical	Pass
5	167.788	22.64	-29.20	43.5	20.86	Peak	263.00	100	Vertical	Pass
6	191.699	23.92	-27.22	43.5	19.58	Peak	247.00	100	Vertical	Pass

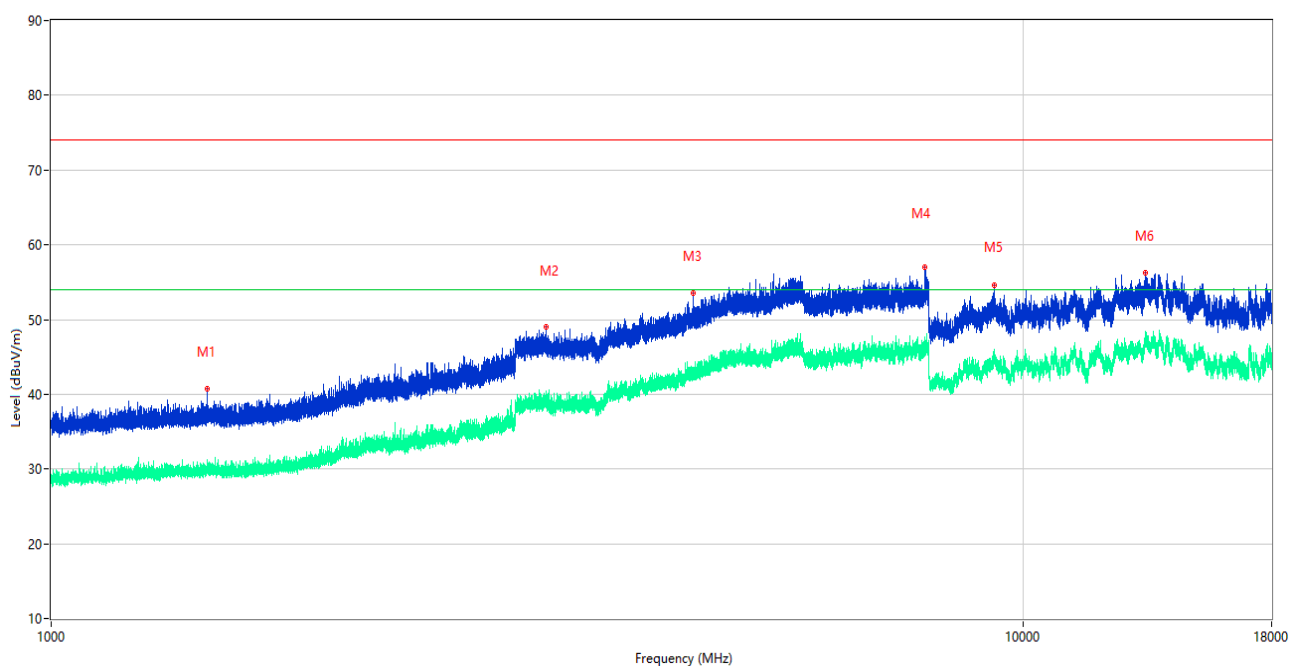
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	42.077	19.19	-25.95	40.0	20.81	Peak	139.00	100	Horizontal	Pass
2	72.729	17.73	-30.44	40.0	22.27	Peak	149.00	200	Horizontal	Pass
3	76.511	19.98	-31.17	40.0	20.02	Peak	329.00	200	Horizontal	Pass
4	98.240	18.75	-27.06	43.5	24.75	Peak	257.00	200	Horizontal	Pass
5	165.606	19.97	-29.33	43.5	23.53	Peak	15.00	200	Horizontal	Pass
6	192.863	19.83	-27.08	43.5	23.67	Peak	26.00	100	Horizontal	Pass

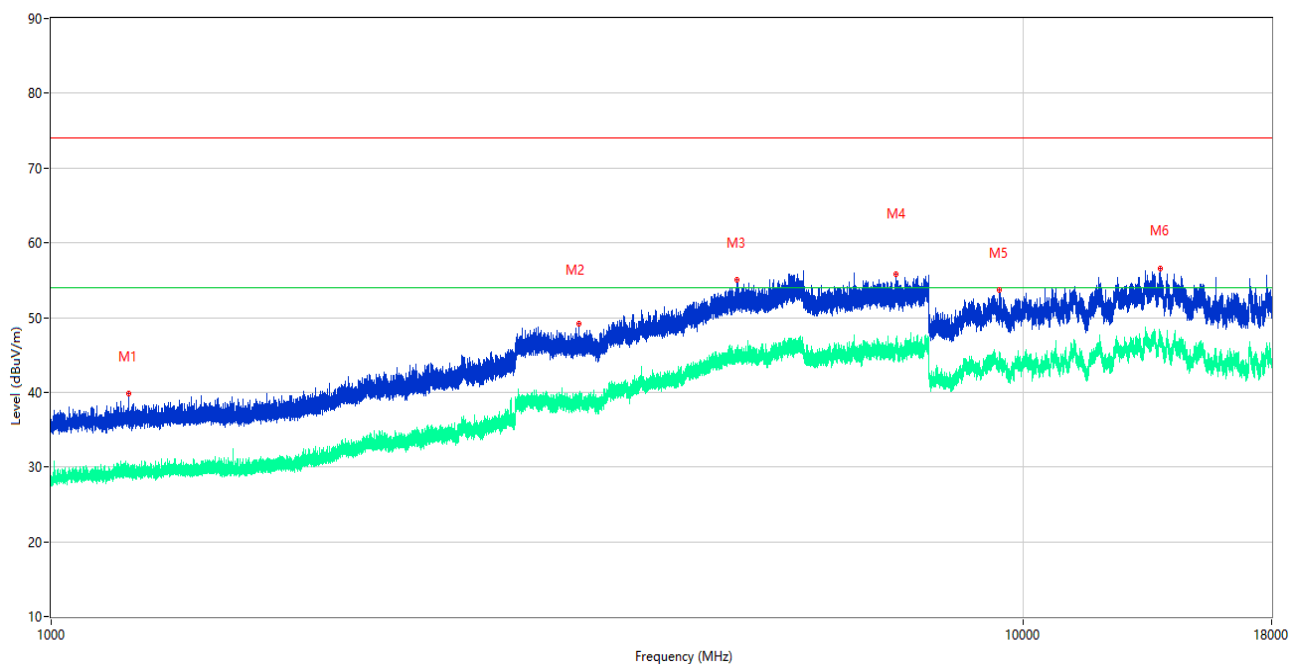
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	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	/		☒

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	1448.100	40.72	-15.83	74.0	33.28	Peak	5.00	100	Vertical	Pass
1**	1448.100	30.07	-15.83	54.0	23.93	AV	5.00	100	Vertical	Pass
2	3226.250	48.97	-4.60	74.0	25.03	Peak	52.00	100	Vertical	Pass
2**	3226.250	39.11	-4.60	54.0	14.89	AV	52.00	100	Vertical	Pass
3	4575.500	53.48	0.10	74.0	20.52	Peak	88.00	100	Vertical	Pass
3**	4575.500	42.67	0.10	54.0	11.33	AV	88.00	100	Vertical	Pass
4	7923.250	56.99	2.98	74.0	17.01	Peak	162.00	100	Vertical	Pass
4**	7923.250	47.54	2.98	54.0	6.46	AV	162.00	100	Vertical	Pass
5	9327.500	54.66	2.17	74.0	19.34	Peak	166.00	100	Vertical	Pass
5**	9327.500	46.05	2.17	54.0	7.95	AV	166.00	100	Vertical	Pass
6	13338.000	56.28	4.81	74.0	17.72	Peak	323.00	100	Vertical	Pass
6**	13338.000	46.79	4.81	54.0	7.21	AV	323.00	100	Vertical	Pass

4) Test Antenna Horizontal, 1 GHz – 18 GHz

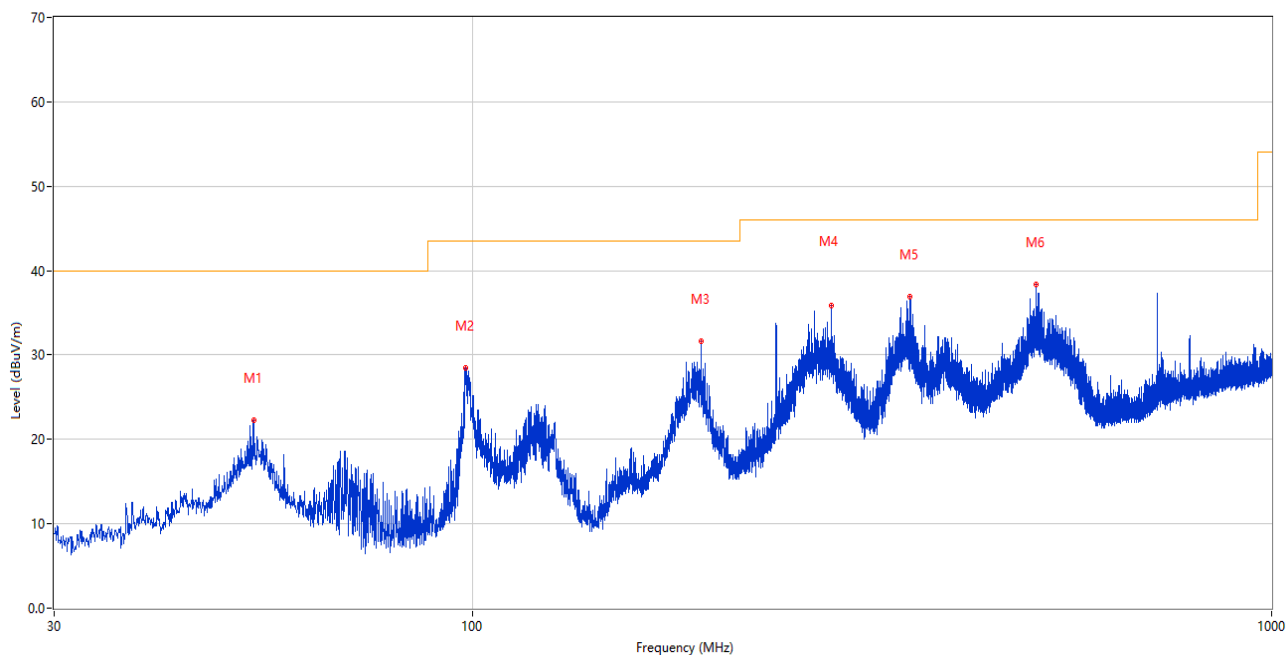


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1200.400	39.85	-16.19	74.0	34.15	Peak	210.00	100	Horizontal	Pass
1**	1200.400	29.57	-16.19	54.0	24.43	AV	210.00	100	Horizontal	Pass
2	3487.000	49.12	-3.80	74.0	24.88	Peak	317.00	100	Horizontal	Pass
2**	3487.000	39.89	-3.80	54.0	14.11	AV	317.00	100	Horizontal	Pass
3	5073.250	55.00	1.64	74.0	19.00	Peak	109.00	100	Horizontal	Pass
3**	5073.250	44.45	1.64	54.0	9.55	AV	109.00	100	Horizontal	Pass
4	7402.000	55.85	2.52	74.0	18.15	Peak	335.00	100	Horizontal	Pass
4**	7402.000	45.98	2.52	54.0	8.02	AV	335.00	100	Horizontal	Pass
5	9434.500	53.65	1.78	74.0	20.35	Peak	329.00	100	Horizontal	Pass
5**	9434.500	43.16	1.78	54.0	10.84	AV	329.00	100	Horizontal	Pass
6	13837.000	56.57	5.34	74.0	17.43	Peak	343.00	100	Horizontal	Pass
6**	13837.000	45.94	5.34	54.0	8.06	AV	343.00	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	SCHWARZB ECK	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	/		☒

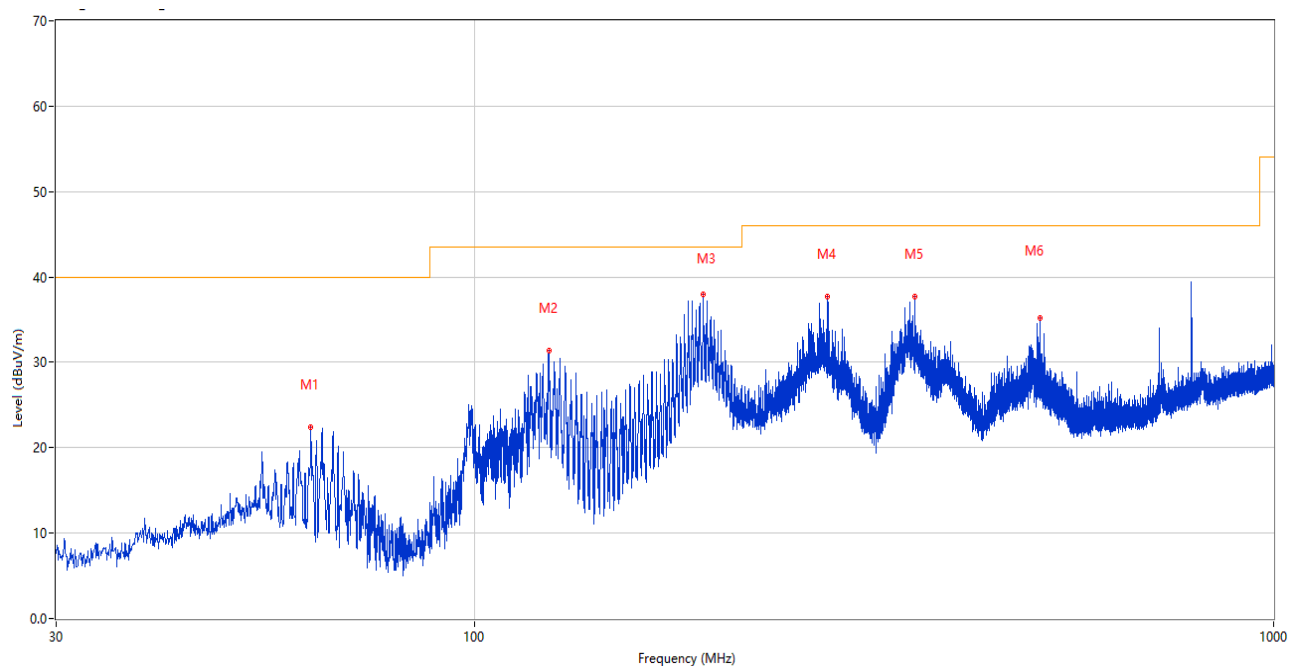
Test Mode 7

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	53.280	22.28	-25.54	40.0	17.72	Peak	227.00	100	Vertical	Pass
2	97.997	28.53	-27.10	43.5	14.97	Peak	222.00	100	Vertical	Pass
3	193.396	31.64	-27.07	43.5	11.86	Peak	86.00	100	Vertical	Pass
4	281.424	35.79	-24.16	46.0	10.21	Peak	128.00	200	Vertical	Pass
5	353.253	36.86	-21.87	46.0	9.14	Peak	182.00	100	Vertical	Pass
6	507.095	38.38	-18.47	46.0	7.62	Peak	186.00	200	Vertical	Pass

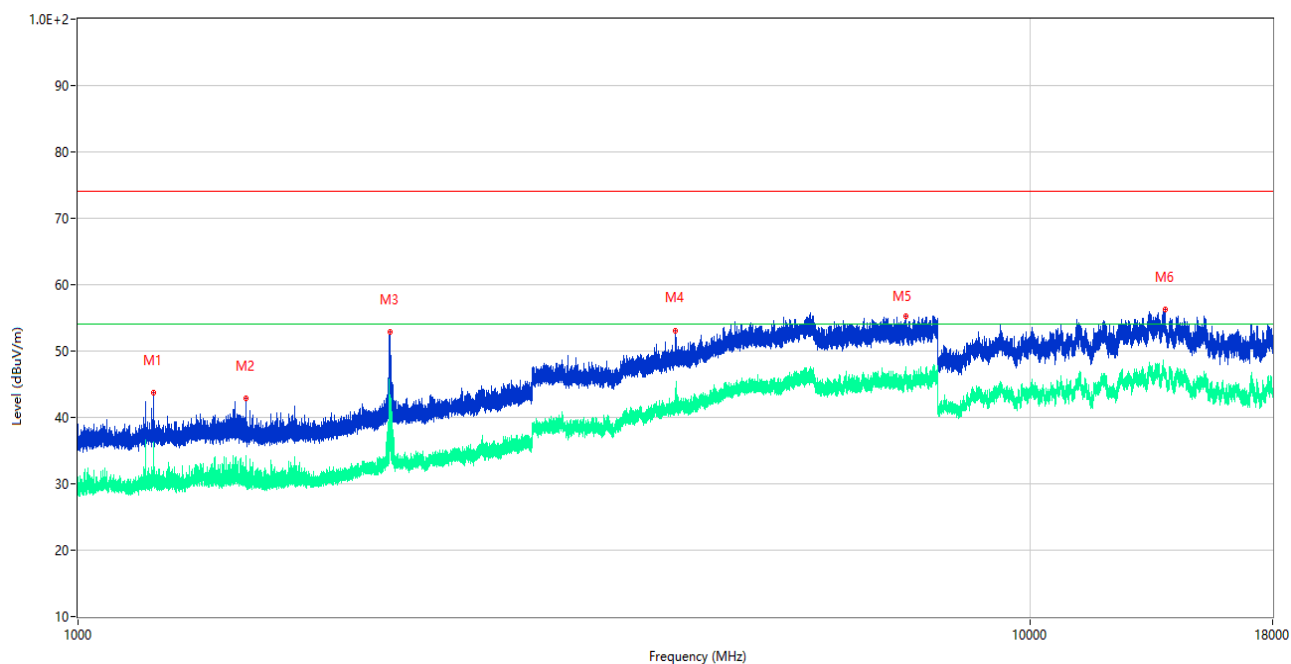
6) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	62.447	22.39	-27.14	40.0	17.61	Peak	337.00	100	Horizontal	Pass
2	123.945	31.37	-29.15	43.5	12.13	Peak	246.00	100	Horizontal	Pass
3	193.542	37.95	-27.08	43.5	5.55	Peak	332.00	100	Horizontal	Pass
4	276.962	37.70	-24.34	46.0	8.30	Peak	224.00	100	Horizontal	Pass
5	356.308	37.68	-21.86	46.0	8.32	Peak	259.00	100	Horizontal	Pass
6	510.926	35.18	-18.44	46.0	10.82	Peak	240.00	200	Horizontal	Pass

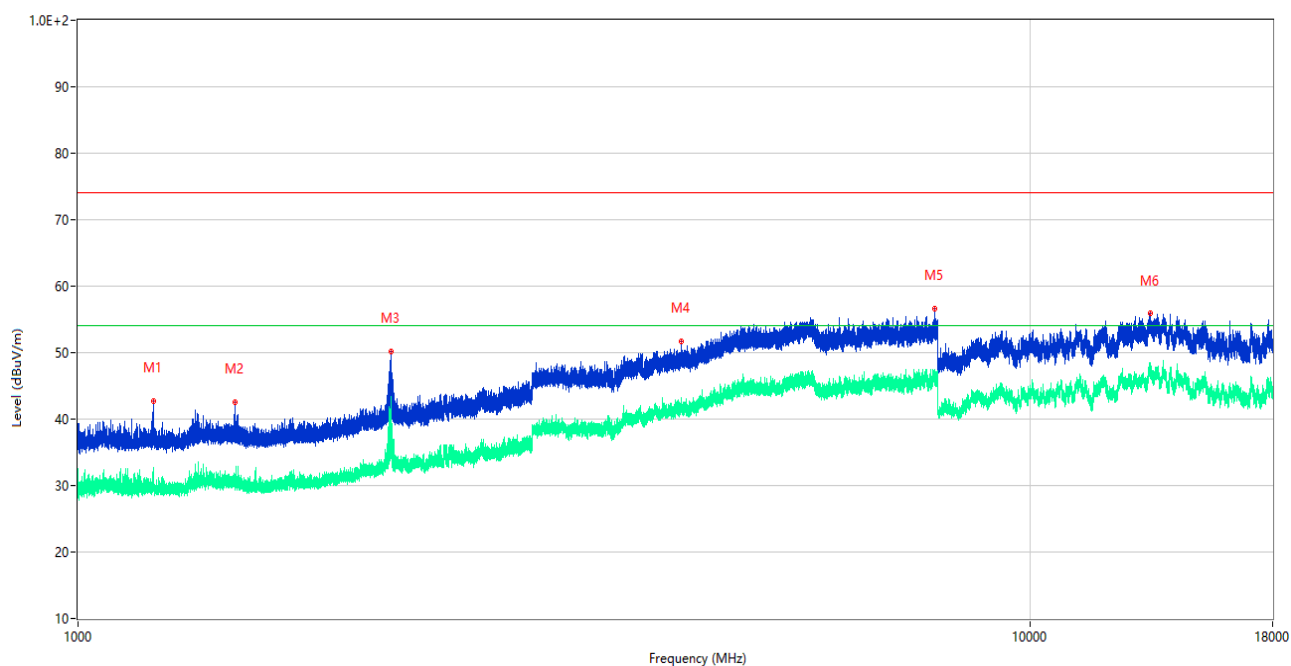
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	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	/		☒

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	1199.200	43.69	-16.23	74.0	30.31	Peak	287.00	100	Vertical	Pass
1**	1199.200	29.96	-16.23	54.0	24.04	AV	287.00	100	Vertical	Pass
2	1501.500	42.81	-16.11	74.0	31.19	Peak	190.00	100	Vertical	Pass
2**	1501.500	29.89	-16.11	54.0	24.11	AV	190.00	100	Vertical	Pass
3	2128.900	52.83	-12.94	74.0	21.17	Peak	208.00	100	Vertical	Pass
3**	2128.900	41.55	-12.94	54.0	12.45	AV	208.00	100	Vertical	Pass
4	4247.250	53.08	-1.31	74.0	20.92	Peak	264.00	100	Vertical	Pass
4**	4247.250	41.47	-1.31	54.0	12.53	AV	264.00	100	Vertical	Pass
5	7408.500	55.18	2.67	74.0	18.82	Peak	360.00	100	Vertical	Pass
5**	7408.500	45.48	2.67	54.0	8.52	AV	360.00	100	Vertical	Pass
6	13866.500	56.24	5.02	74.0	17.76	Peak	37.00	100	Vertical	Pass
6**	13866.500	47.27	5.02	54.0	6.73	AV	37.00	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	1199.500	42.77	-16.22	74.0	31.23	Peak	126.00	100	Horizontal	Pass
1**	1199.500	29.71	-16.22	54.0	24.29	AV	126.00	100	Horizontal	Pass
2	1463.900	42.56	-15.78	74.0	31.44	Peak	179.00	100	Horizontal	Pass
2**	1463.900	30.48	-15.78	54.0	23.52	AV	179.00	100	Horizontal	Pass
3	2133.200	50.24	-12.96	74.0	23.76	Peak	257.00	100	Horizontal	Pass
3**	2133.200	36.75	-12.96	54.0	17.25	AV	257.00	100	Horizontal	Pass
4	4302.500	51.78	-0.21	74.0	22.22	Peak	161.00	100	Horizontal	Pass
4**	4302.500	42.28	-0.21	54.0	11.72	AV	161.00	100	Horizontal	Pass
5	7954.500	56.56	2.99	74.0	17.44	Peak	52.00	100	Horizontal	Pass
5**	7954.500	46.00	2.99	54.0	8.00	AV	52.00	100	Horizontal	Pass
6	13381.000	55.92	5.03	74.0	18.08	Peak	167.00	100	Horizontal	Pass
6**	13381.000	47.45	5.03	54.0	6.55	AV	167.00	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	SCHWARZB ECK	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	/		☒

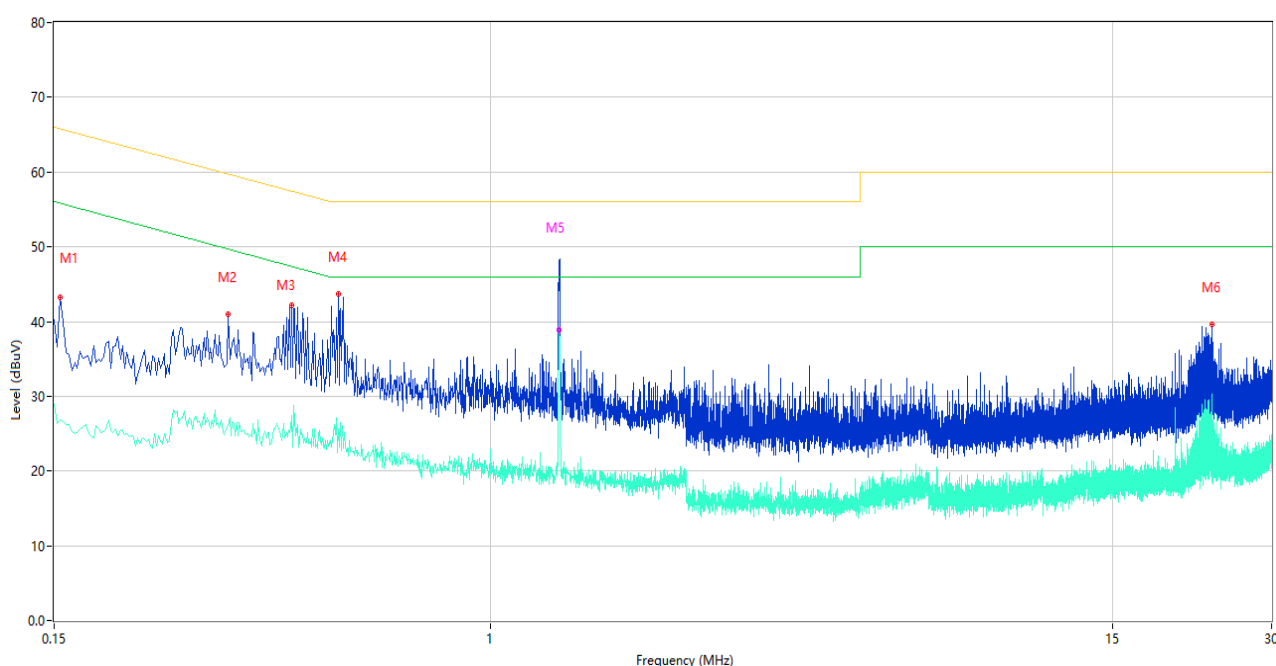
A.2 Conducted Emission, AC Ports

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 (120 VAC, 60 Hz) shown here.

Sample No.	S02	Temperature	22.7°C
Humidity	39%RH	Pressure	101kPa
Test Engineer	Yang Yang	Test Date	2024.07.10

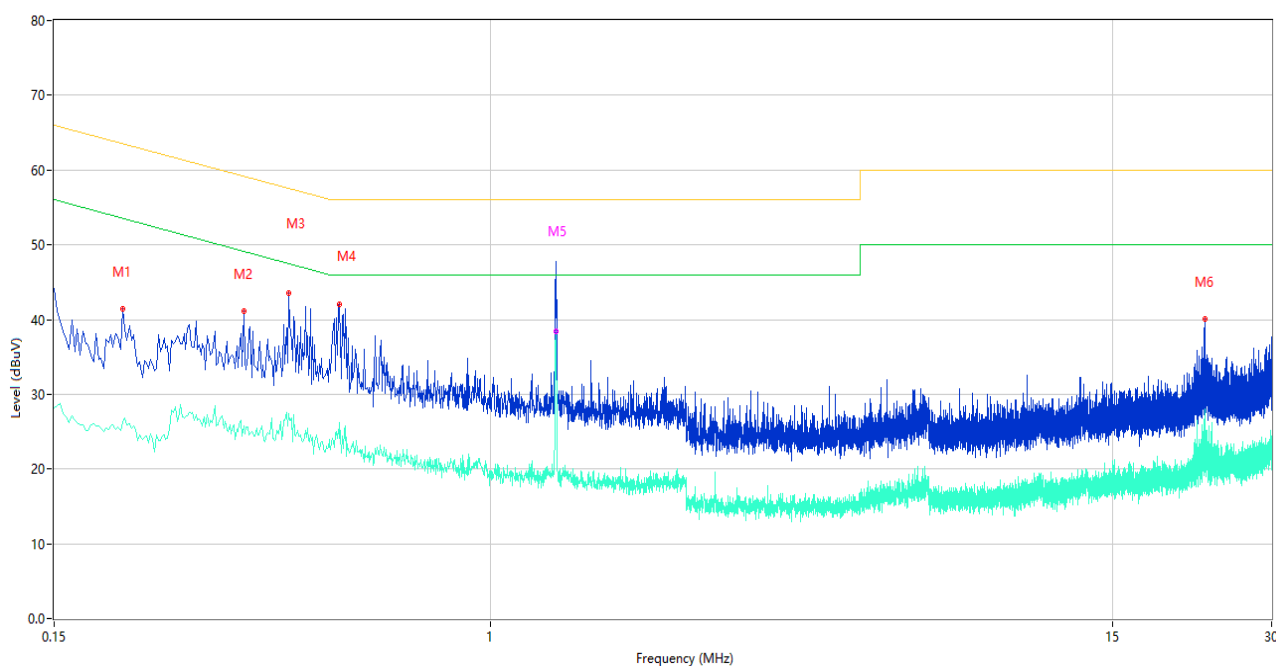
Test Mode 1

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.154	43.19	10.12	65.78	22.59	Peak	L	Pass
1**	0.154	26.83	10.12	55.78	28.95	AV	L	Pass
2	0.320	40.96	10.05	59.71	18.75	Peak	L	Pass
2**	0.320	26.13	10.05	49.71	23.58	AV	L	Pass
3	0.422	42.21	10.65	57.41	15.20	Peak	L	Pass
3**	0.422	27.46	10.65	47.41	19.95	AV	L	Pass
4	0.516	43.64	10.41	56.00	12.36	Peak	L	Pass
4**	0.516	25.61	10.41	46.00	20.39	AV	L	Pass
5	1.352	48.24	10.56	56.00	7.76	Peak	L	Pass
5**	1.352	38.92	10.56	46.00	7.08	AV	L	Pass
6	23.124	39.62	13.24	60.00	20.38	Peak	L	Pass
6**	23.124	25.30	13.24	50.00	24.70	AV	L	Pass

2) AC Ports - N Phase



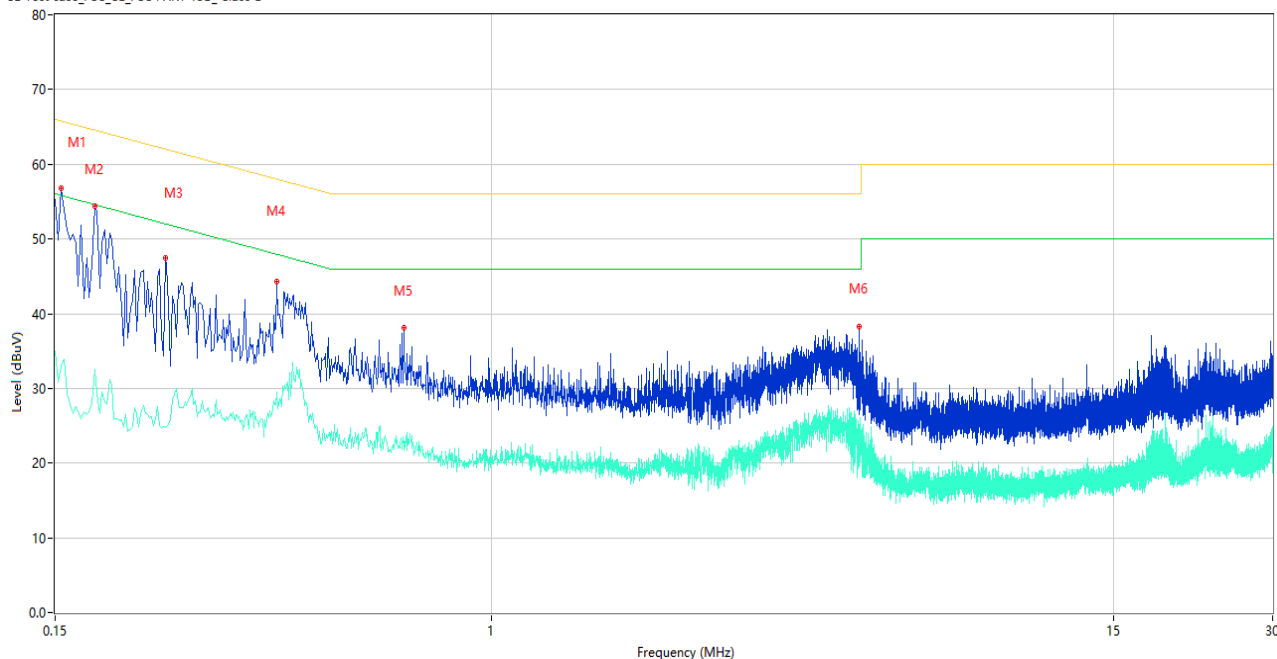
No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.202	41.42	10.06	63.53	22.11	Peak	N	Pass
1**	0.202	26.27	10.06	53.53	27.26	AV	N	Pass
2	0.342	41.16	10.01	59.15	17.99	Peak	N	Pass
2**	0.342	25.69	10.01	49.15	23.46	AV	N	Pass
3	0.416	43.58	10.66	57.53	13.95	Peak	N	Pass
3**	0.416	27.39	10.66	47.53	20.14	AV	N	Pass
4	0.518	42.10	10.42	56.00	13.90	Peak	N	Pass
4**	0.518	24.13	10.42	46.00	21.87	AV	N	Pass
5	1.330	47.80	10.54	56.00	8.20	Peak	N	Pass
5**	1.330	38.41	10.54	46.00	7.59	AV	N	Pass
6	22.474	40.00	13.36	60.00	20.00	Peak	N	Pass
6**	22.474	28.04	13.36	50.00	21.96	AV	N	Pass

Sample No.	S02	Temperature	24.3℃
Humidity	52%RH	Pressure	101kPa
Test Engineer	Yang Yang	Test Date	2024.07.10

Test Mode 7

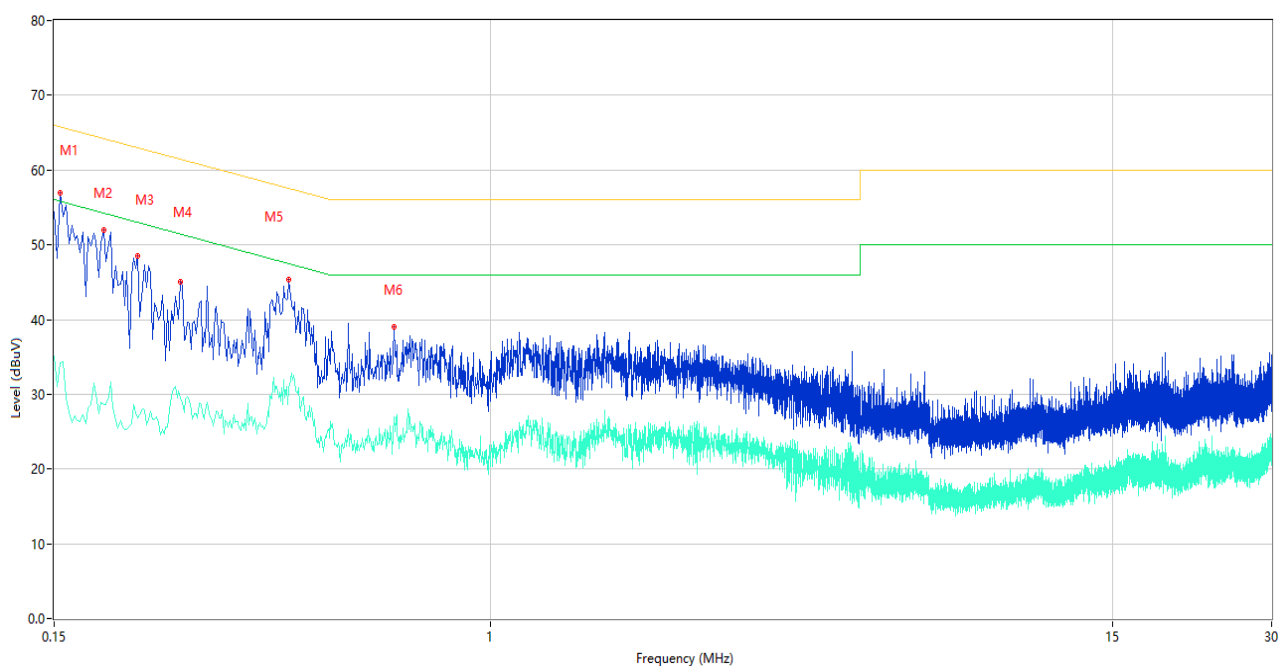
3) AC Ports - L Phase

CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.154	56.80	10.12	65.78	8.98	Peak	L	Pass
1**	0.154	32.94	10.12	55.78	22.84	AV	L	Pass
2	0.178	54.35	10.09	64.58	10.23	Peak	L	Pass
2**	0.178	32.50	10.09	54.58	22.08	AV	L	Pass
3	0.242	47.38	10.07	62.03	14.65	Peak	L	Pass
3**	0.242	24.84	10.07	52.03	27.19	AV	L	Pass
4	0.394	44.34	10.60	57.98	13.64	Peak	L	Pass
4**	0.394	29.53	10.60	47.98	18.45	AV	L	Pass
5	0.684	38.06	10.66	56.00	17.94	Peak	L	Pass
5**	0.684	22.56	10.66	46.00	23.44	AV	L	Pass
6	4.966	38.32	10.64	56.00	17.68	Peak	L	Pass
6**	4.966	21.49	10.64	46.00	24.51	AV	L	Pass

4) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.154	56.89	10.12	65.78	8.89	Peak	N	Pass
1**	0.154	34.15	10.12	55.78	21.63	AV	N	Pass
2	0.186	51.97	10.08	64.21	12.24	Peak	N	Pass
2**	0.186	28.68	10.08	54.21	25.53	AV	N	Pass
3	0.216	48.54	10.06	62.97	14.43	Peak	N	Pass
3**	0.216	26.81	10.06	52.97	26.16	AV	N	Pass
4	0.260	45.08	10.07	61.43	16.35	Peak	N	Pass
4**	0.260	29.53	10.07	51.43	21.90	AV	N	Pass
5	0.416	45.28	10.66	57.53	12.25	Peak	N	Pass
5**	0.416	30.81	10.66	47.53	16.72	AV	N	Pass
6	0.658	39.01	10.42	56.00	16.99	Peak	N	Pass
6**	0.658	26.89	10.42	46.00	19.11	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-SZ2461005-AE-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2461005-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2461005-AI.PDF”.

Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--END OF REPORT--