

TEST REPORT

Applicant: Shenzhen Tinno Mobile Technology Corp
Address: 27-001, South side of Tianlong mobile HQ Building,
Tongfa South Road, Xili Street, Nanshan District,
Shenzhen, Guangdong Province, 518000, China
Equipment Type: onn. 10.1" Tablet
Model Name: TBIND100135925 (refer to section 2.3)
Brand Name: onn.
FCC ID: XD6WM2310T
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Dec. 13, 2023
Test Date: Dec. 18, 2023- Jan. 02, 2024
Date of Issue: Jan. 11, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Zhang Guoxi**Checked by:** Zhenxiang Liu**Approved by:** Liao Jianming
(Technical Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Jan. 11, 2024</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Shenzhen Tinno Mobile Technology Corp
Address	27-001, South side of Tianlong mobile HQ Building, Tongfa South Road, Xili Street, Nanshan District, Shenzhen, Guangdong Province, 518000, China

2.2 Manufacturer Information

Manufacturer	Shenzhen Tinno Mobile Technology Corp
Address	27-001, South side of Tianlong mobile HQ Building, Tongfa South Road, Xili Street, Nanshan District, Shenzhen, Guangdong Province, 518000, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	onn. 10.1" Tablet
Model Name Under Test	TBIND100135925
Series Model Name	TBPPY100135925, TBLVD100135925, TBVAN100135925
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name and color. (this information provided by the applicant)
Hardware Version	V1.0
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.	U309395PV-1S2P
	Serial No.	N/A
	Capacity	7300 mAh
	Rated Voltage	3.80 V
	Limit Charge Voltage	4.35 V
Ancillary Equipment 2	Adapter	
	Brand Name	N/A
	Model No.	LACA216
	Serial No.	N/A
	Rated Input	100-240V~, 50/60Hz, 0.3A
	Rated Output	5.0V= 2.0A
Ancillary Equipment 3	USB Cable	
	Length (Approx.)	1.0 m

2.5 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) U-NII-1/2A/2C/3, GPS
Classification of equipment	Class B
The highest internal frequency of EUT	5.8 GHz

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	4.8 dB
Radiated emissions (1 GHz-18 GHz)-966#2	4.9 dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Enclosure List

Description	Manufacturer	Model	Serial No.	Length	Description	Use
Laptop	Lenovo	N/A	N/A	N/A	N/A	☒
Data connector	N/A	N/A	N/A	N/A	N/A	☒
USB disk	Sandisk	N/A	N/A	N/A	N/A	☒
Type-C Headset	OPPO	N/A	N/A	N/A	1.12M	☒

4.2 Test Configurations

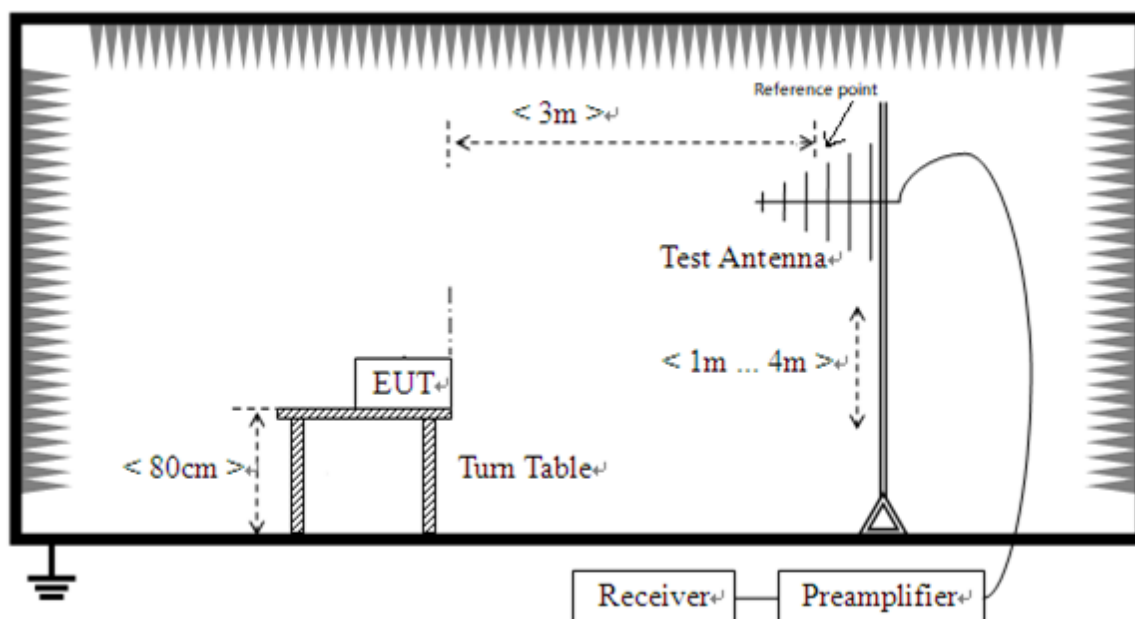
All test modes of EUT are listed in the table below.

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

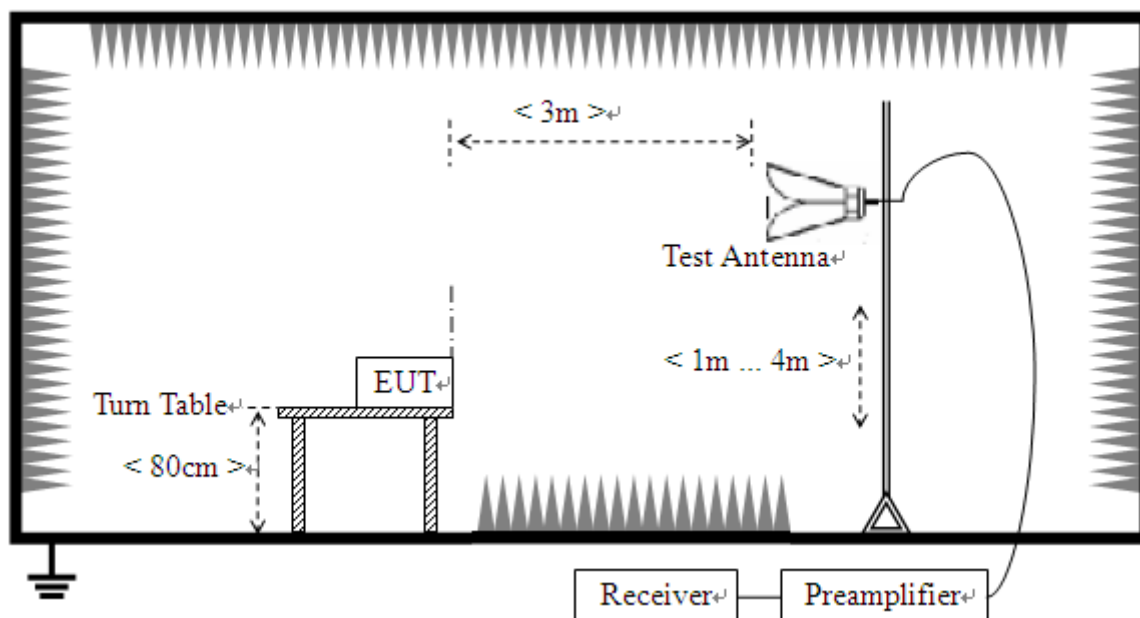
Test Case	Test Mode Configuration	Worst Mode
Radiated Emission	Mode 1~Mode 6	1, 4
Conducted Emission, AC Ports	Mode 1~Mode 6	2, 4
Note: All operation modes were tested, but only test data of the worst mode was presented in this report.		

4.3 Test Setups

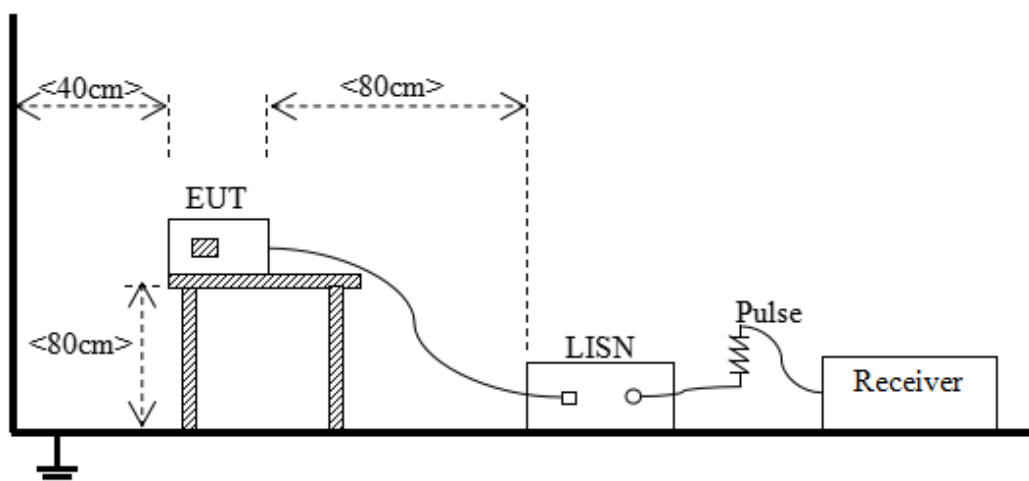
Test Setup 1



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) The limits using ANSI C63.4.
- 4) 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/m) + 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 = Results – Limit.

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 = Results – Limit.

ANNEX A TEST RESULTS

A.1 Radiated Emission

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

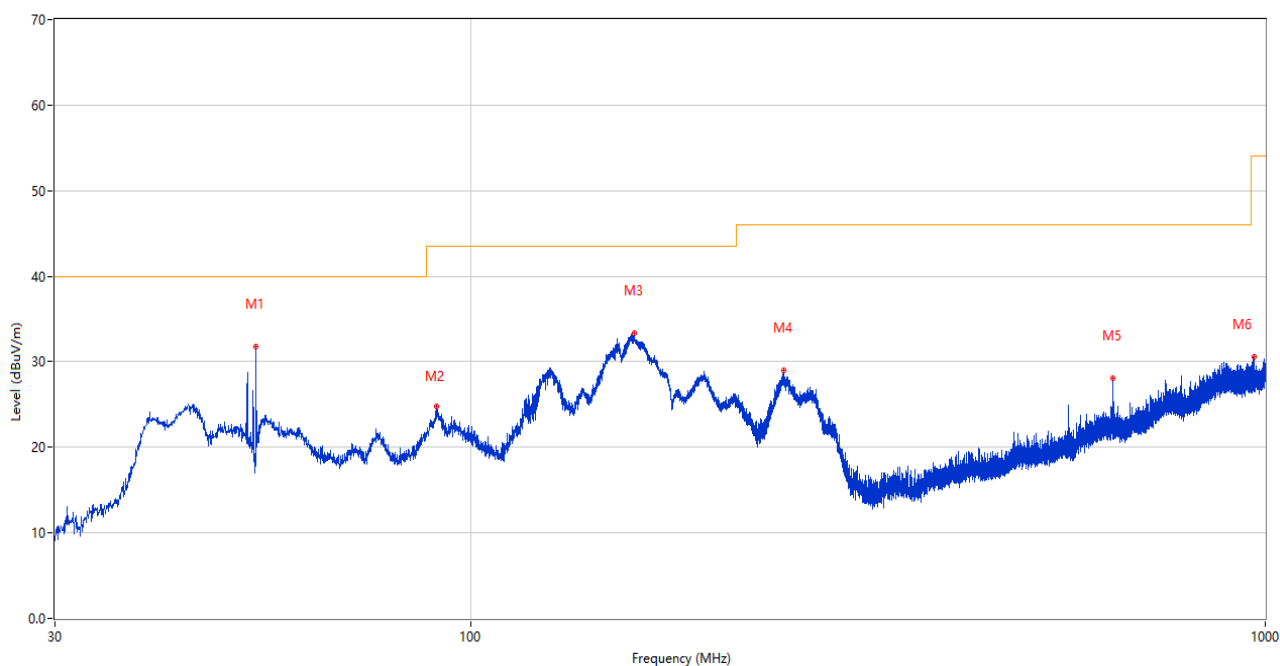
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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.	S10	Temperature	20.1℃
Humidity	47%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2023.12.18

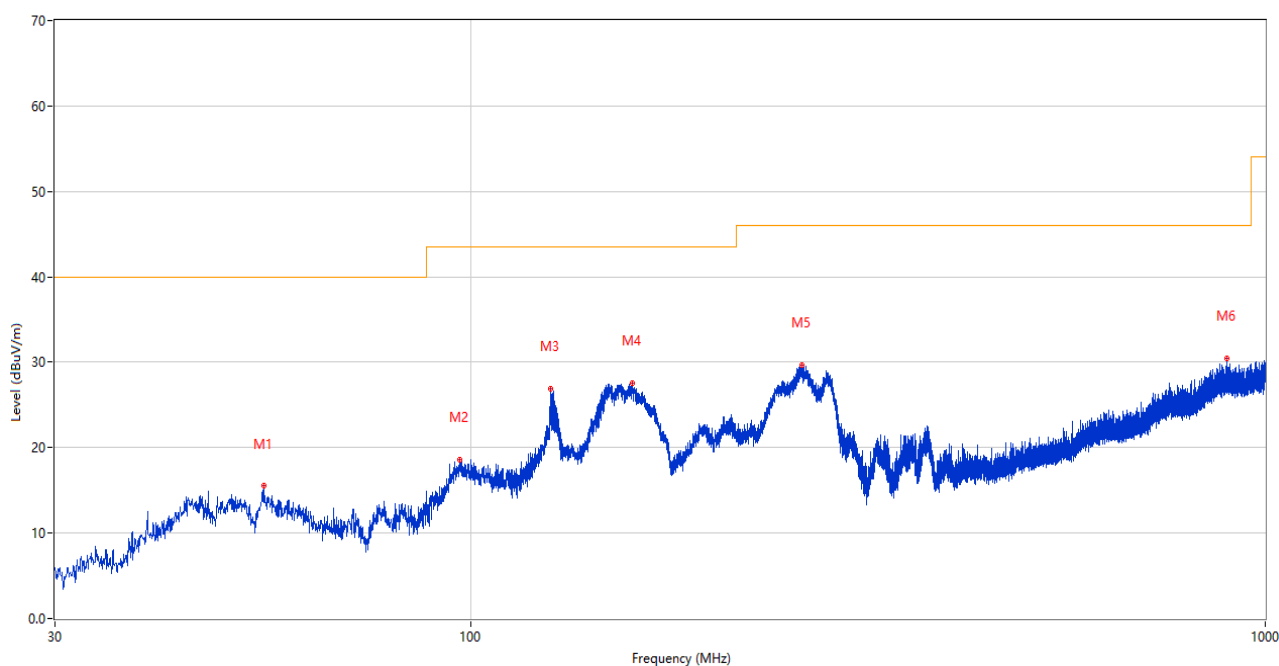
Test Mode 1

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	53.717	31.73	-25.24	40.0	8.27	Peak	1.00	100	Vertical	Pass
2	90.722	24.75	-28.61	43.5	18.75	Peak	252.00	100	Vertical	Pass
3	160.805	33.41	-29.39	43.5	10.09	Peak	353.00	100	Vertical	Pass
4	247.620	28.98	-24.44	46.0	17.02	Peak	333.00	100	Vertical	Pass
5	642.264	28.06	-14.61	46.0	17.94	Peak	1.00	100	Vertical	Pass
6	967.893	30.58	-8.89	54.0	23.42	Peak	72.00	200	Vertical	Pass

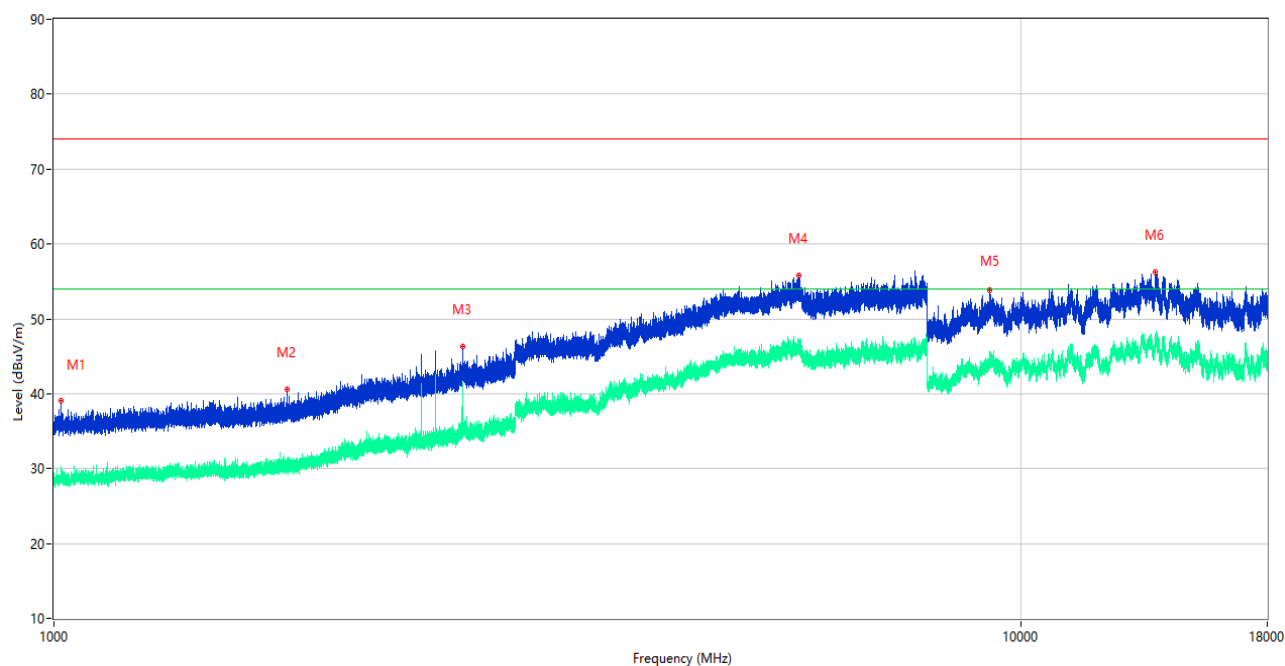
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	54.880	15.49	-25.28	40.0	24.51	Peak	27.00	100	Horizontal	Pass
2	96.930	18.63	-27.04	43.5	24.87	Peak	130.00	200	Horizontal	Pass
3	125.981	26.90	-29.60	43.5	16.60	Peak	115.00	200	Horizontal	Pass
4	159.786	27.52	-29.42	43.5	15.98	Peak	283.00	100	Horizontal	Pass
5	261.103	29.71	-24.55	46.0	16.29	Peak	72.00	100	Horizontal	Pass
6	894.416	30.50	-9.25	46.0	15.50	Peak	69.00	200	Horizontal	Pass

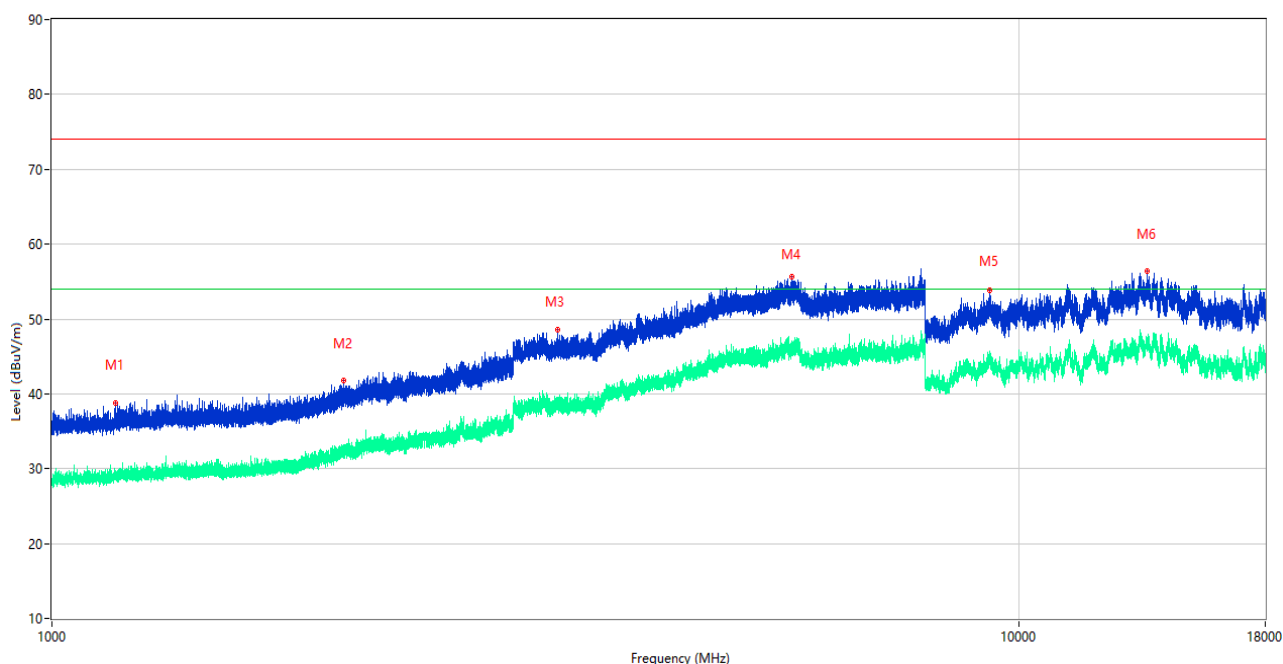
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04	☒
Test Antenna-Bi-Log	SCHWARZB ECK	VULB 9168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

3) Test Antenna Vertical, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1018.100	39.04	-15.99	74.0	34.96	Peak	213.00	100	Vertical	Pass
1**	1018.100	28.80	-15.99	54.0	25.20	AV	213.00	100	Vertical	Pass
2	1744.400	40.51	-15.71	74.0	33.49	Peak	132.00	100	Vertical	Pass
2**	1744.400	29.81	-15.71	54.0	24.19	AV	132.00	100	Vertical	Pass
3	2648.100	46.28	-9.58	74.0	27.72	Peak	297.00	100	Vertical	Pass
3**	2648.100	35.61	-9.58	54.0	18.39	AV	297.00	100	Vertical	Pass
4	5894.000	55.77	3.88	74.0	18.23	Peak	145.00	100	Vertical	Pass
4**	5894.000	45.56	3.88	54.0	8.44	AV	145.00	100	Vertical	Pass
5	9299.500	53.90	2.19	74.0	20.10	Peak	171.00	100	Vertical	Pass
5**	9299.500	45.32	2.19	54.0	8.68	AV	171.00	100	Vertical	Pass
6	13797.500	56.26	5.70	74.0	17.74	Peak	37.00	100	Vertical	Pass
6**	13797.500	46.62	5.70	54.0	7.38	AV	37.00	100	Vertical	Pass

4) Test Antenna Horizontal, 1 GHz – 18 GHz



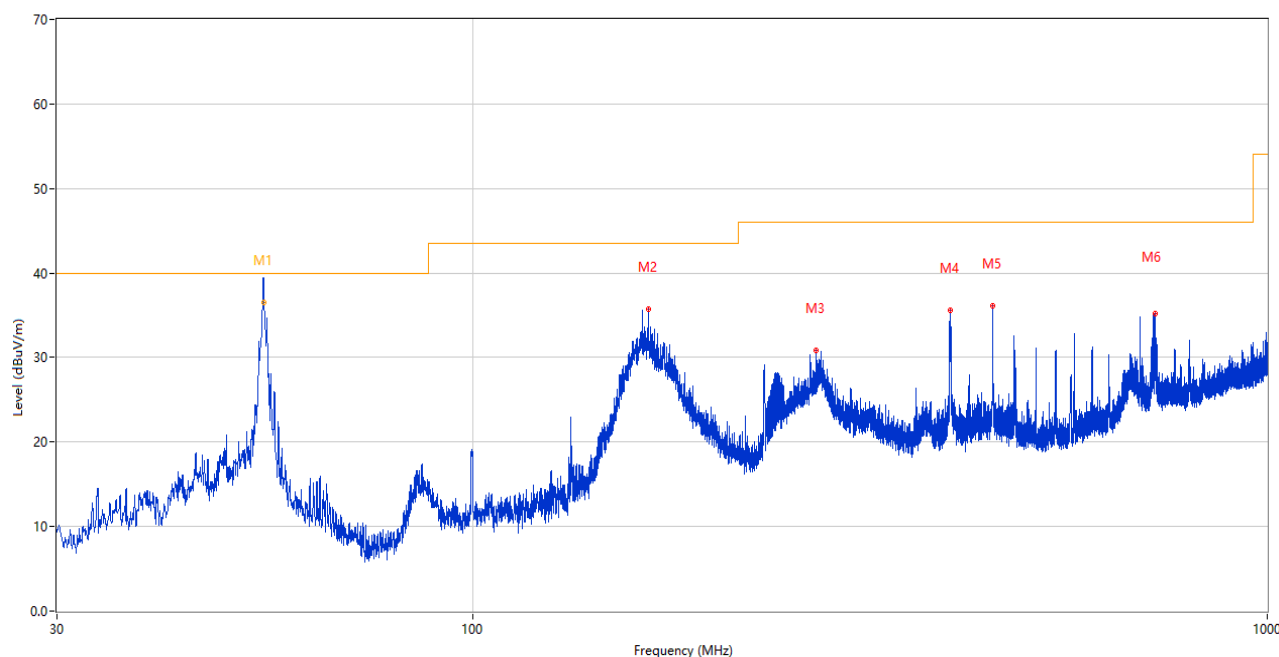
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1164.700	38.71	-16.01	74.0	35.29	Peak	160.00	100	Horizontal	Pass
1**	1164.700	29.02	-16.01	54.0	24.98	AV	160.00	100	Horizontal	Pass
2	2002.800	41.81	-13.80	74.0	32.19	Peak	73.00	100	Horizontal	Pass
2**	2002.800	32.44	-13.80	54.0	21.56	AV	73.00	100	Horizontal	Pass
3	3337.500	48.51	-4.05	74.0	25.49	Peak	283.00	100	Horizontal	Pass
3**	3337.500	39.00	-4.05	54.0	15.00	AV	283.00	100	Horizontal	Pass
4	5829.250	55.60	3.99	74.0	18.40	Peak	62.00	100	Horizontal	Pass
4**	5829.250	45.89	3.99	54.0	8.11	AV	62.00	100	Horizontal	Pass
5	9331.000	53.81	2.16	74.0	20.19	Peak	175.00	100	Horizontal	Pass
5**	9331.000	44.62	2.16	54.0	9.38	AV	175.00	100	Horizontal	Pass
6	13599.500	56.35	4.71	74.0	17.65	Peak	95.00	100	Horizontal	Pass
6**	13599.500	45.77	4.71	54.0	8.23	AV	95.00	100	Horizontal	Pass

Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Above 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	☒
Amplifier (1-12GHz)	Advanced Microwave	WLA652A	1740103	2023.12.05	2024.12.04	☒
Amplifier (0.8-21GHz)	Mini-Circuits	ZVA-213-S+	225321316	2023.12.05	2024.12.04	☒
Test Antenna-Horn	SCHWARZB ECK	BBHA 9120D	01917	2022.06.09	2025.06.08	☒
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2021.08.19	2024.08.18	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

Sample No.	S10	Temperature	20.1℃
Humidity	47%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2024.01.02

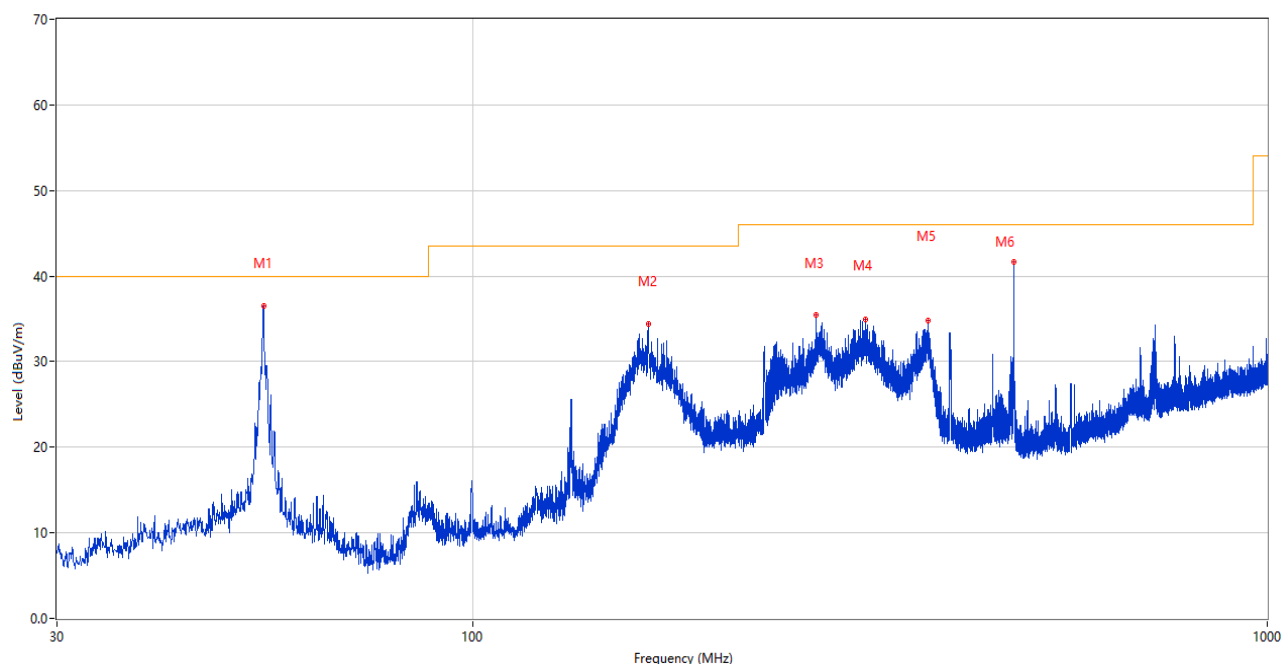
Test Mode 4

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	54.601	41.68	-25.63	40.0	-1.68	Peak	295.00	101	Vertical	N/A
1*	54.601	36.57	-25.63	40.0	3.43	QP	295.00	101	Vertical	Pass
2	166.528	35.70	-29.25	43.5	7.80	Peak	226.00	100	Vertical	Pass
3	270.900	30.82	-24.40	46.0	15.18	Peak	330.00	200	Vertical	Pass
4	399.473	35.63	-20.96	46.0	10.37	Peak	186.00	100	Vertical	Pass
5	451.319	36.18	-19.86	46.0	9.82	Peak	161.00	100	Vertical	Pass
6	721.852	35.25	-13.58	46.0	10.75	Peak	191.00	100	Vertical	Pass

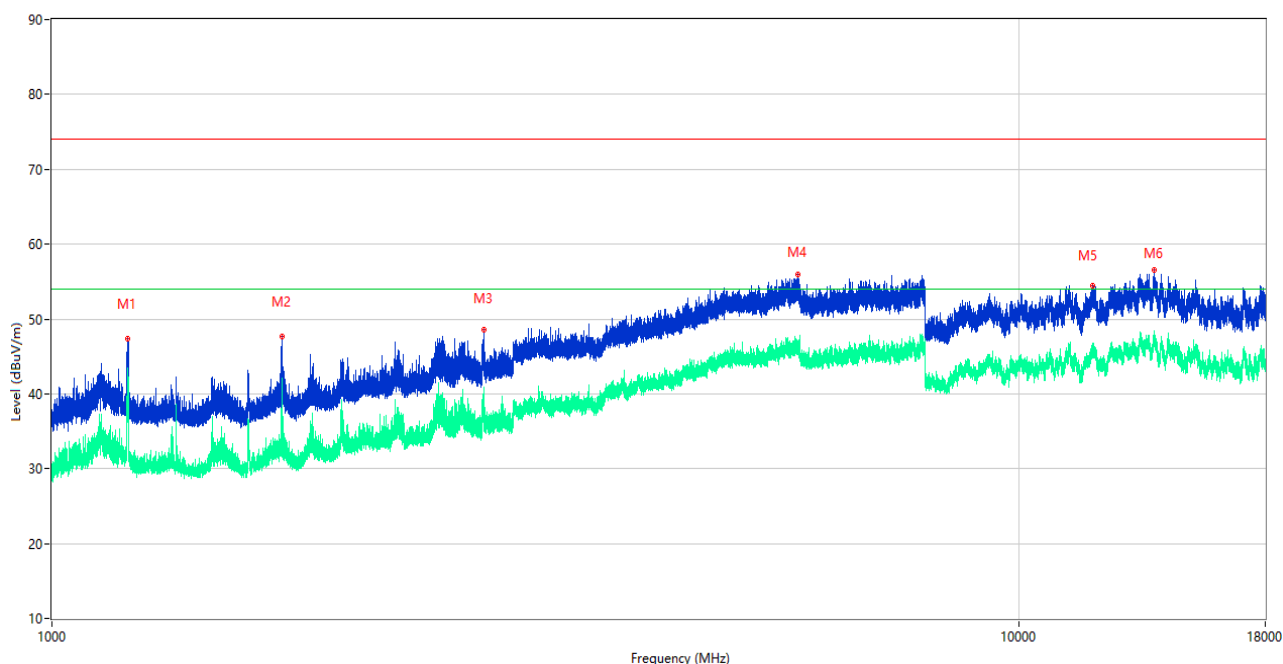
6) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	54.590	36.58	-25.63	40.0	3.42	Peak	193.00	200	Horizontal	Pass
2	166.285	34.36	-29.28	43.5	9.14	Peak	133.00	200	Horizontal	Pass
3	270.900	35.46	-24.40	46.0	10.54	Peak	254.00	100	Horizontal	Pass
4	312.318	34.96	-23.34	46.0	11.04	Peak	237.00	100	Horizontal	Pass
5	374.398	34.75	-21.72	46.0	11.25	Peak	360.00	100	Horizontal	Pass
6	479.983	41.68	-19.19	46.0	4.32	Peak	151.00	100	Horizontal	Pass

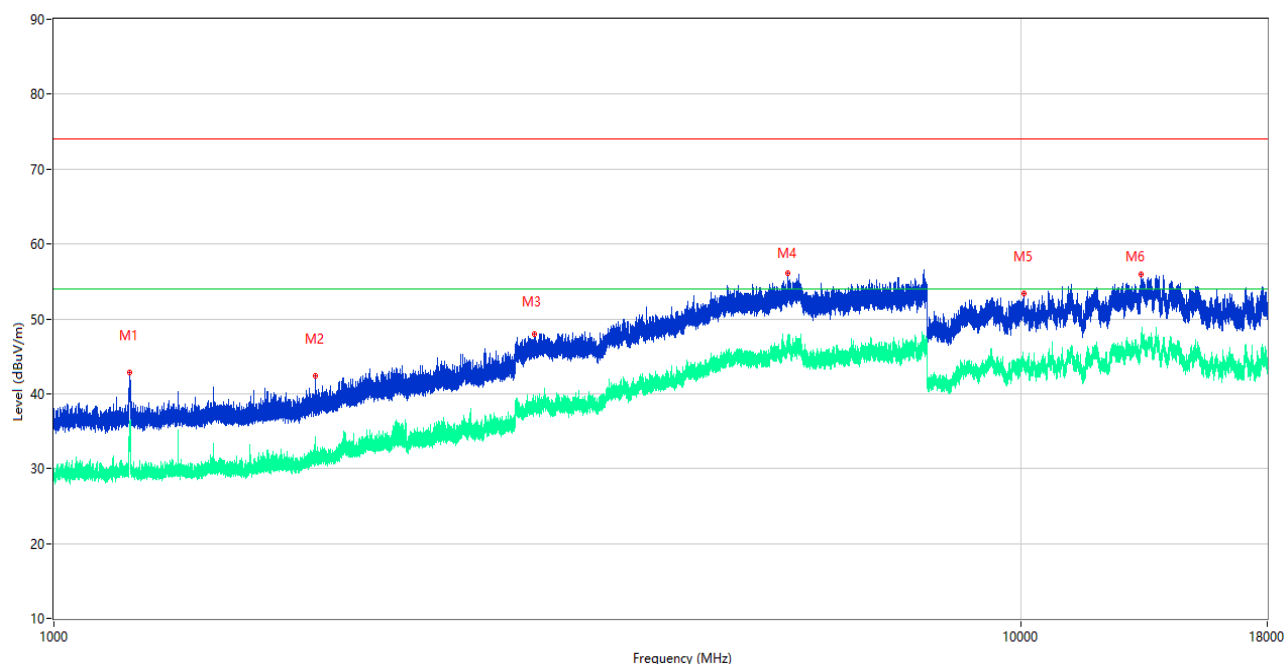
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04	☒
Test Antenna-Bi-Log	SCHWARZB ECK	VULB 9168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

7) Test Antenna Vertical, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1196.600	47.39	-16.31	74.0	26.61	Peak	214.00	100	Vertical	Pass
1**	1196.600	37.34	-16.31	54.0	16.66	AV	214.00	100	Vertical	Pass
2	1729.100	47.65	-15.87	74.0	26.35	Peak	205.00	100	Vertical	Pass
2**	1729.100	35.52	-15.87	54.0	18.48	AV	205.00	100	Vertical	Pass
3	2796.600	48.58	-8.30	74.0	25.42	Peak	251.00	100	Vertical	Pass
3**	2796.600	37.52	-8.30	54.0	16.48	AV	251.00	100	Vertical	Pass
4	5907.000	55.89	3.53	74.0	18.11	Peak	174.00	100	Vertical	Pass
4**	5907.000	47.05	3.53	54.0	6.95	AV	174.00	100	Vertical	Pass
5	11919.000	54.46	2.42	74.0	19.54	Peak	67.00	100	Vertical	Pass
5**	11919.000	45.57	2.42	54.0	8.43	AV	67.00	100	Vertical	Pass
6	13806.500	56.61	5.73	74.0	17.39	Peak	201.00	100	Vertical	Pass
6**	13806.500	47.81	5.73	54.0	6.19	AV	201.00	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	1198.100	42.83	-16.21	74.0	31.17	Peak	278.00	100	Horizontal	Pass
1**	1198.100	34.16	-16.21	54.0	19.84	AV	278.00	100	Horizontal	Pass
2	1863.400	42.36	-14.89	74.0	31.64	Peak	242.00	100	Horizontal	Pass
2**	1863.400	32.21	-14.89	54.0	21.79	AV	242.00	100	Horizontal	Pass
3	3142.750	47.99	-4.97	74.0	26.01	Peak	11.00	100	Horizontal	Pass
3**	3142.750	38.54	-4.97	54.0	15.46	AV	11.00	100	Horizontal	Pass
4	5744.500	56.08	3.11	74.0	17.92	Peak	360.00	100	Horizontal	Pass
4**	5744.500	46.17	3.11	54.0	7.83	AV	360.00	100	Horizontal	Pass
5	10084.000	53.37	1.52	74.0	20.63	Peak	229.00	100	Horizontal	Pass
5**	10084.000	44.31	1.52	54.0	9.69	AV	229.00	100	Horizontal	Pass
6	13339.500	56.02	4.86	74.0	17.98	Peak	360.00	100	Horizontal	Pass
6**	13339.500	46.85	4.86	54.0	7.15	AV	360.00	100	Horizontal	Pass

Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Above 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	☒
Amplifier (1-12GHz)	Advanced Microwave	WLA652A	1740103	2023.12.05	2024.12.04	☒
Amplifier (0.8-21GHz)	Mini-Circuits	ZVA-213-S+	225321316	2023.12.05	2024.12.04	☒
Test Antenna-Horn	SCHWARZB ECK	BBHA 9120D	01917	2022.06.09	2025.06.08	☒
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2021.08.19	2024.08.18	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

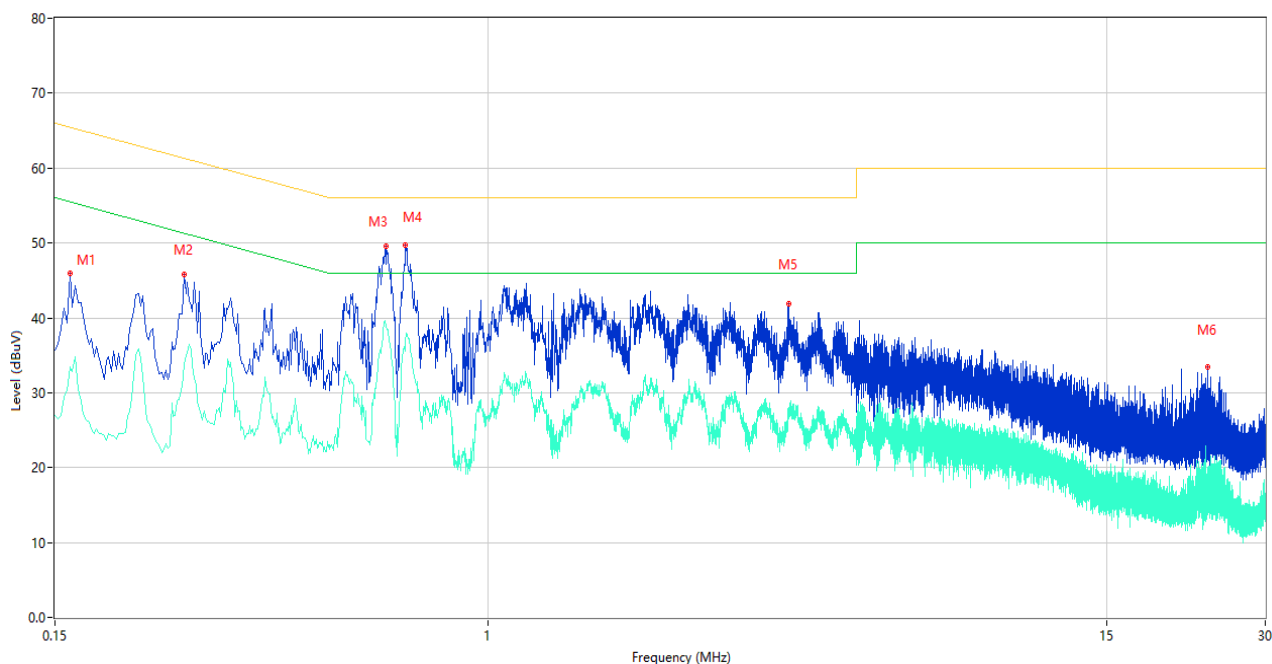
A.2 Conducted Emission, AC Ports

Note: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (230 VAC, 50 Hz) shown here.

Sample No.	S10	Temperature	20.1℃
Humidity	37%RH	Pressure	101kPa
Test Engineer	Yang Yang	Test Date	2023.12.25

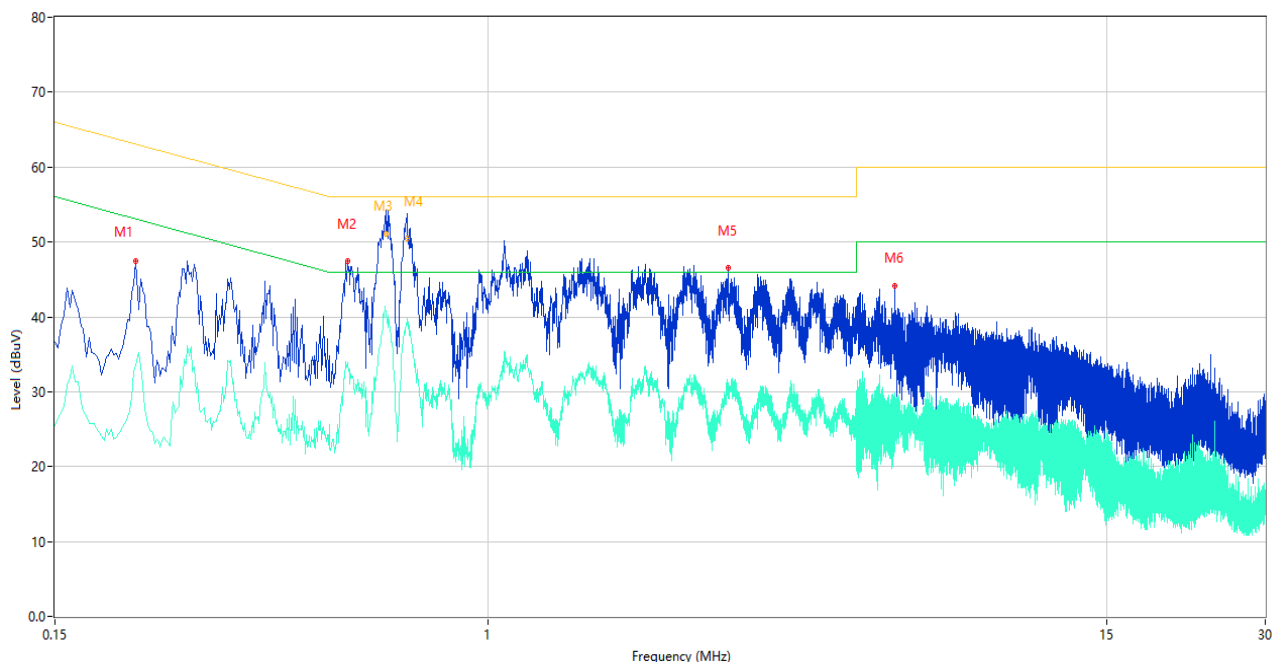
Test Mode 2

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.160	45.89	9.46	65.46	19.57	Peak	L	Pass
1**	0.160	33.44	9.46	55.46	22.02	AV	L	Pass
2	0.264	45.78	9.43	61.30	15.52	Peak	L	Pass
2**	0.264	33.68	9.43	51.30	17.62	AV	L	Pass
3	0.640	49.61	9.71	56.00	6.39	Peak	L	Pass
3**	0.640	39.03	9.71	46.00	6.97	AV	L	Pass
4	0.696	49.77	10.05	56.00	6.23	Peak	L	Pass
4**	0.696	36.91	10.05	46.00	9.09	AV	L	Pass
5	3.726	41.93	9.81	56.00	14.07	Peak	L	Pass
5**	3.726	28.01	9.81	46.00	17.99	AV	L	Pass
6	23.352	33.45	6.99	60.00	26.55	Peak	L	Pass
6**	23.352	20.06	6.99	50.00	29.94	AV	L	Pass

2) AC Ports - N Phase



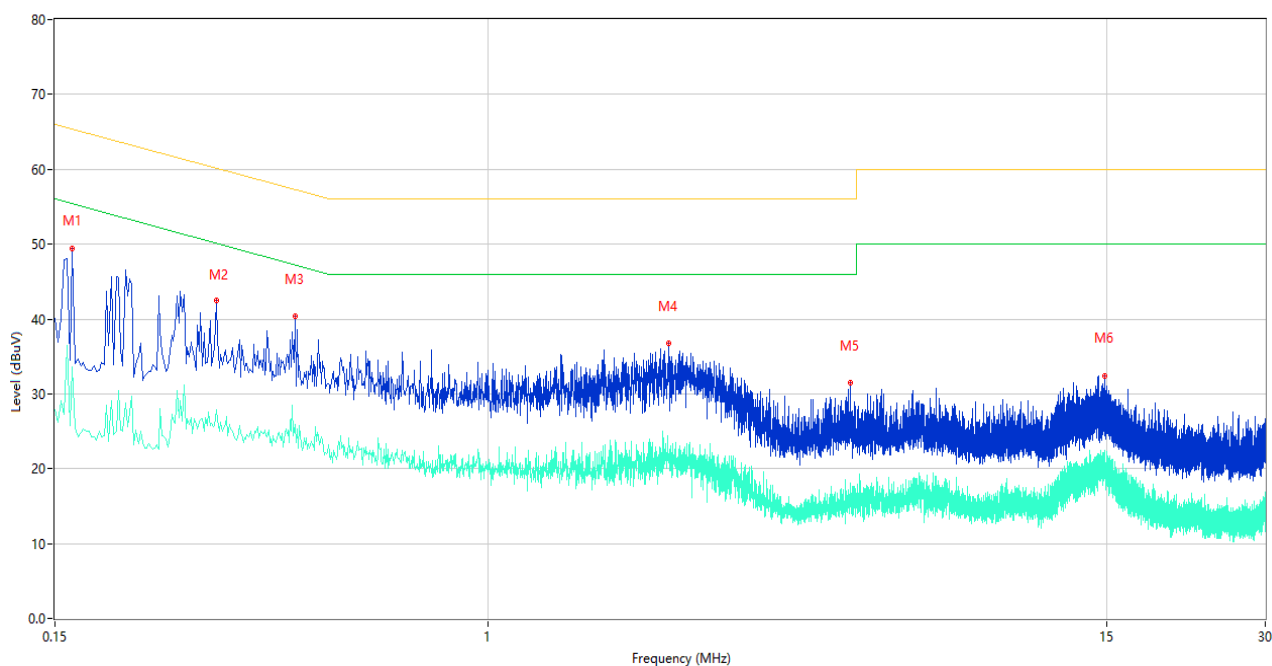
No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.214	47.47	9.42	63.05	15.58	Peak	N	Pass
1**	0.214	33.55	9.42	53.05	19.50	AV	N	Pass
2	0.540	47.49	9.78	56.00	8.51	Peak	N	Pass
2**	0.540	33.87	9.78	46.00	12.13	AV	N	Pass
3	0.640	55.57	9.71	56.00	0.43	Peak	N	N/A
3*	0.640	51.12	9.71	56.00	4.88	QP	N	Pass
3**	0.640	40.70	9.71	46.00	5.30	AV	N	Pass
4	0.700	54.51	10.08	56.00	1.49	Peak	N	N/A
4*	0.700	50.44	10.08	56.00	5.56	QP	N	Pass
4**	0.700	39.75	10.08	46.00	6.25	AV	N	Pass
5	2.862	46.56	9.49	56.00	9.44	Peak	N	Pass
5**	2.862	31.25	9.49	46.00	14.75	AV	N	Pass
6	5.936	44.10	9.42	60.00	15.90	Peak	N	Pass
6**	5.936	25.84	9.42	50.00	24.16	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	2023.05.16	2024.05.15	☒
ISN	TESEQ	ISN T800	34449	2023.11.10	2024.11.09	☐
ISN	TESEQ	ISN T8-Cat6	53561	2023.04.23	2024.04.22	☐
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	/		☒

Sample No.	S10	Temperature	20.1℃
Humidity	37%RH	Pressure	101kPa
Test Engineer	Yang Yang	Test Date	2023.12.25

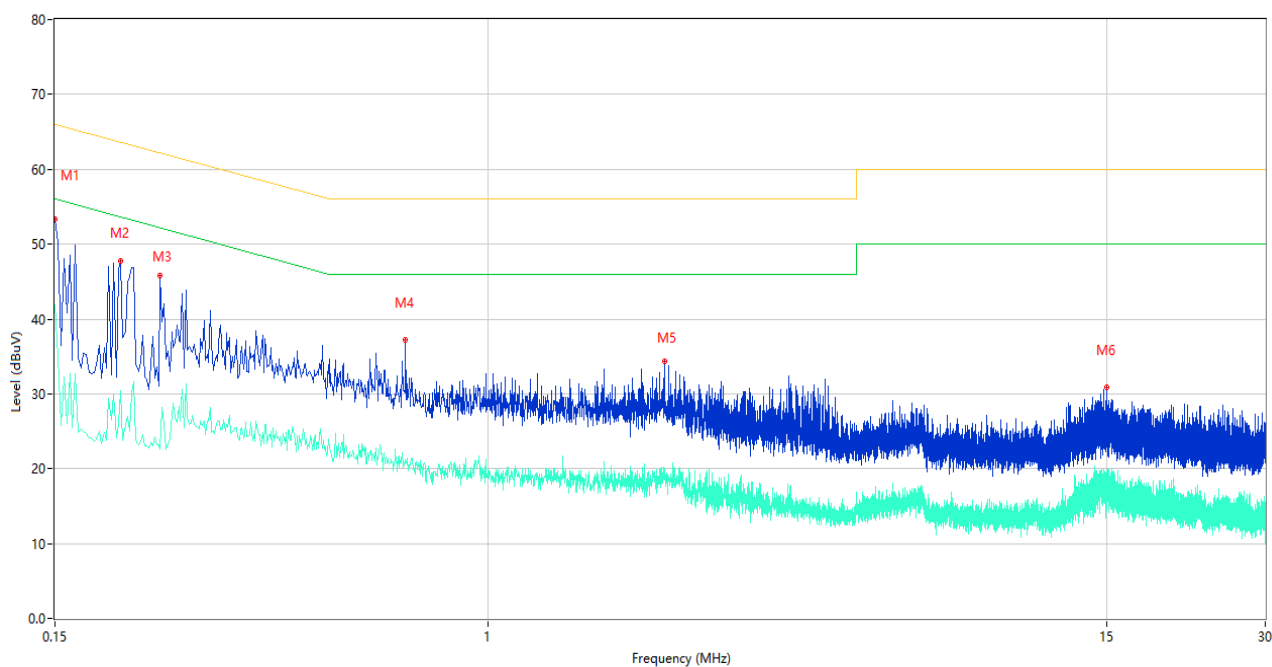
Test Mode 4

3) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.162	49.34	9.46	65.36	16.02	Peak	L	Pass
1**	0.162	33.57	9.46	55.36	21.79	AV	L	Pass
2	0.304	42.45	9.42	60.13	17.68	Peak	L	Pass
2**	0.304	27.91	9.42	50.13	22.22	AV	L	Pass
3	0.430	40.36	9.96	57.25	16.89	Peak	L	Pass
3**	0.430	25.86	9.96	47.25	21.39	AV	L	Pass
4	2.198	36.70	9.71	56.00	19.30	Peak	L	Pass
4**	2.198	20.84	9.71	46.00	25.16	AV	L	Pass
5	4.884	31.49	9.63	56.00	24.51	Peak	L	Pass
5**	4.884	17.16	9.63	46.00	28.84	AV	L	Pass
6	14.828	32.45	7.49	60.00	27.55	Peak	L	Pass
6**	14.828	22.05	7.49	50.00	27.95	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	53.30	9.47	66.00	12.70	Peak	N	Pass
1**	0.150	41.93	9.47	56.00	14.07	AV	N	Pass
2	0.200	47.68	9.42	63.61	15.93	Peak	N	Pass
2**	0.200	30.43	9.42	53.61	23.18	AV	N	Pass
3	0.238	45.75	9.43	62.17	16.42	Peak	N	Pass
3**	0.238	22.55	9.43	52.17	29.62	AV	N	Pass
4	0.696	37.18	10.05	56.00	18.82	Peak	N	Pass
4**	0.696	20.78	10.05	46.00	25.22	AV	N	Pass
5	2.166	34.42	9.88	56.00	21.58	Peak	N	Pass
5**	2.166	19.84	9.88	46.00	26.16	AV	N	Pass
6	14.976	30.88	7.49	60.00	29.12	Peak	N	Pass
6**	14.976	18.55	7.49	50.00	31.45	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	2023.05.16	2024.05.15	☒
ISN	TESEQ	ISN T800	34449	2023.11.10	2024.11.09	☐
ISN	TESEQ	ISN T8-Cat6	53561	2023.04.23	2024.04.22	☐
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-SZ23C0537-AE-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ23C0537-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ23C0537-AI.PDF”.

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--END OF REPORT--