

TEST REPORT

Applicant: Hangzhou Lingban Technology Co., Ltd.
Address: Room 101, Building 8, No.1288, Liangmu Road,
Cangqian Street, Yuhang District, Hangzhou,
Zhejiang, China
Equipment Type: Rokid Station 2
Model Name: RES201
Brand Name: Rokid
FCC ID: 2AW2R-RES201
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Aug. 21, 2024
Test Date: Aug. 28, 2024 - Sep. 10, 2024
Date of Issue: Oct. 11, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Zhang Guoxi **Checked by:** Liu Zhenxiang **Approved by:** Tolan Tu
(Testing Director)



Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Oct. 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	Hangzhou Lingban Technology Co., Ltd.
Address	Room 101, Building 8, No.1288, Liangmu Road, Cangqian Street, Yuhang District, Hangzhou, Zhejiang, China

2.2 Manufacturer Information

Manufacturer	Hangzhou Lingban Technology Co., Ltd.
Address	Room 101, Building 8, No.1288, Liangmu Road, Cangqian Street, Yuhang District, Hangzhou, Zhejiang, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Rokid Station 2
Model Name Under Test	RES201
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	Rokid Station 2 MB-V2.0
Software Version	N/A
Dimensions (Approx.)	62.5 * 121.5 * 16mm
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	Rokid
	Model No.	XR-RKD-01
	Serial No.	N/A
	Capacity	Rated Capacity: 5000 mAh/19.3Wh
	Rated Voltage	3.85 V
	Limit Charge Voltage	4.4 V
	Manufacturer	Shanghai BYD Co., Ltd.
Ancillary Equipment 2	USB Cable	
	Length (Approx.)	0.5m

2.5 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40), 802.11ac(VHT20/40/80/160) and 802.11ax(HE20/40/80/160)
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	Lenovo	N/A	N/A	N/A	N/A	☒
Adapter	ANKER	N/A	N/A	N/A	N/A	☒

4.2 Test Configurations

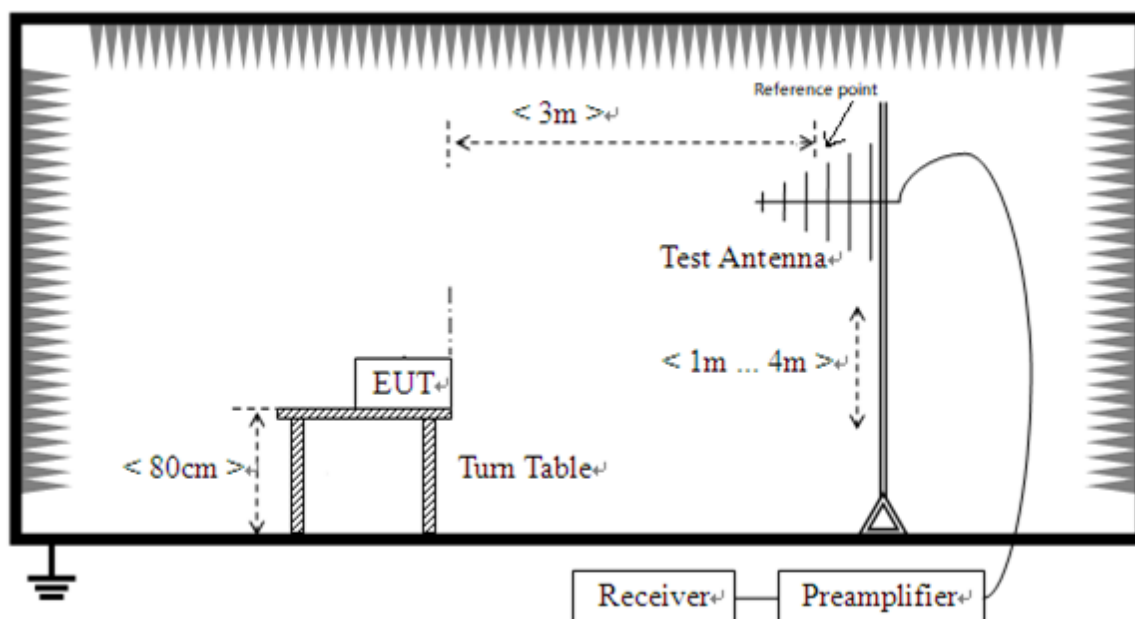
All test modes of EUT are listed in the table below.

Test Mode Configuration	Description
Mode 1	<u>The Charging Test Mode</u> EUT + Adapter + Battery + USB Cable 1
Mode 2	<u>The Video Play Test Mode(With Adapter)</u> EUT + Adapter + Battery + USB Cable 1 + USB Cable 2 + Rokid Max 2
Mode 3	<u>The USB Test Mode(With Adapter)</u> EUT + Adapter + Battery + USB Cable 1 + USB Cable 2 + Laptop
Mode 4	<u>The USB Test Mode</u> EUT + Battery + USB Cable 1 + USB Cable 2 + Laptop
Mode 5	<u>The Video Play Test Mode</u> EUT + Battery + USB Cable 1 + USB Cable 2 + Rokid Max 2

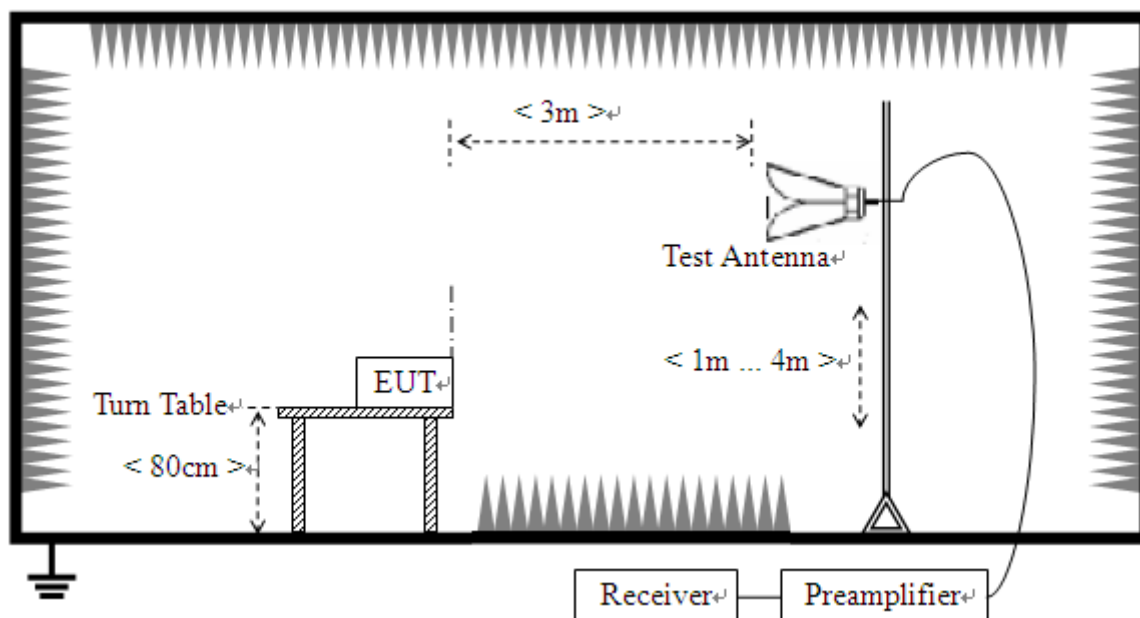
Test Case	Test Mode Configuration	Worst Mode
Radiated Emission	Mode 1~Mode 5	2, 4
Conducted Emission, AC Ports	Mode 1~Mode 5	2, 4
Note: All operation modes were tested, but only test data of the worst mode was presented in this report.		

4.3 Test Setups

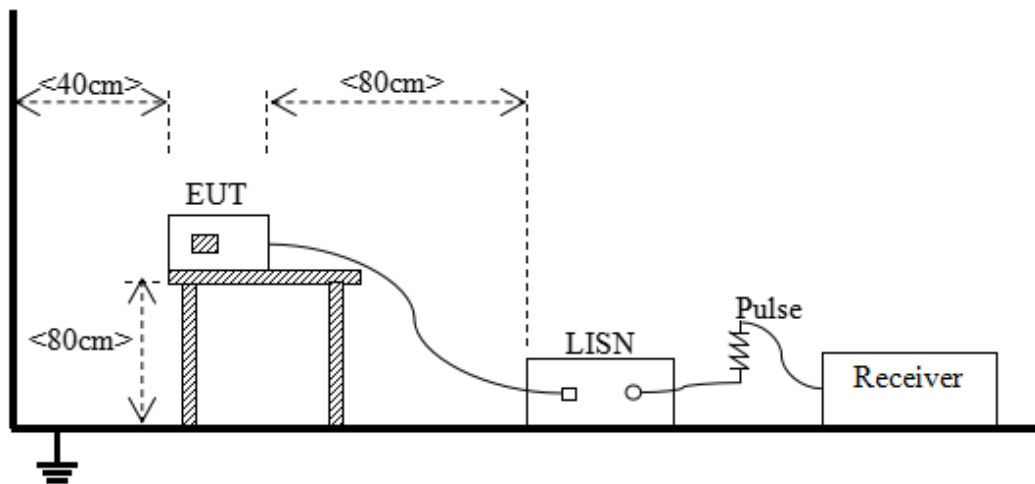
Test Setup 1



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) 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.

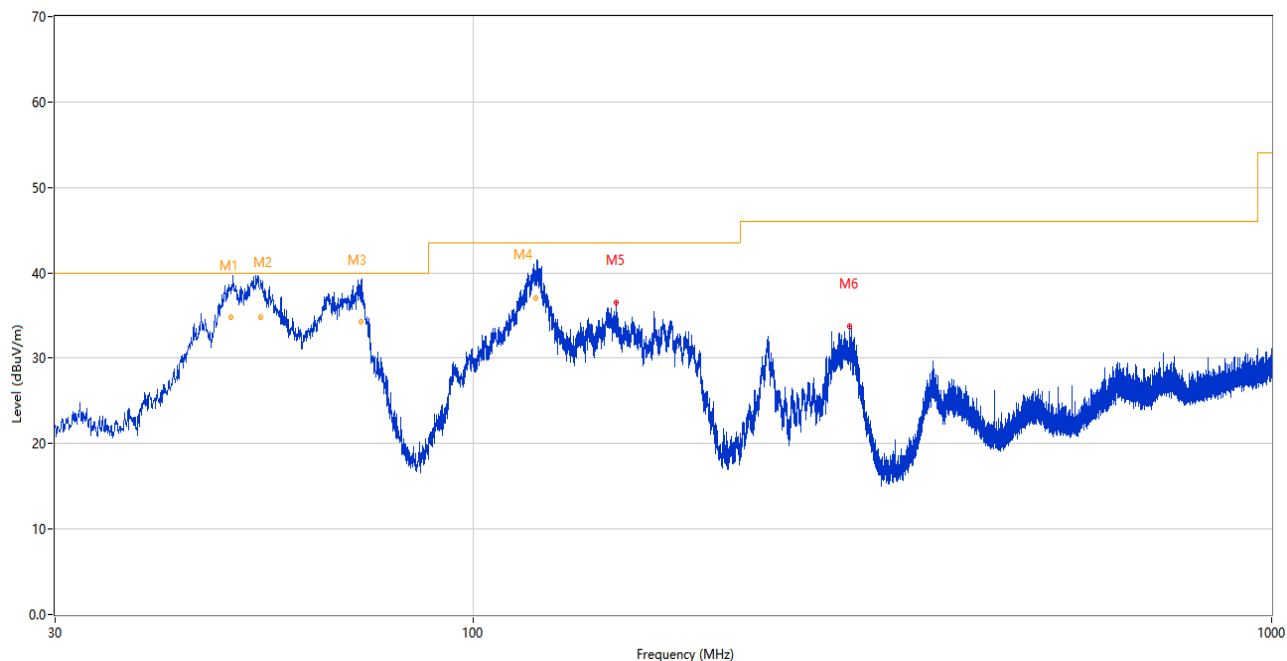
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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.	S06	Temperature	23.4℃
Humidity	50%RH	Pressure	101kPa
Test Engineer	Chen Jingran	Test Date	2024.09.06

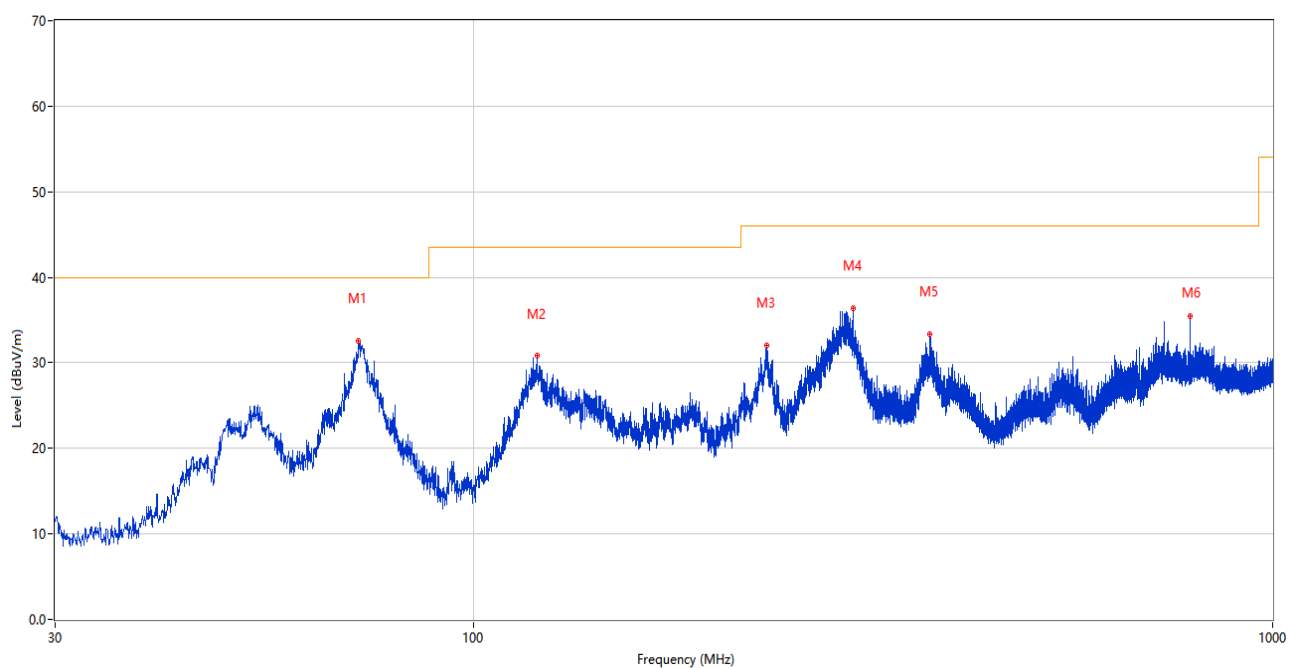
Test Mode 2

1) Test Antenna Vertical, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	49.823	38.56	-25.59	40.0	1.44	Peak	252.00	106	Vertical	N/A
1*	49.823	34.78	-25.59	40.0	5.22	QP	252.00	106	Vertical	Pass
2	54.227	39.21	-25.56	40.0	0.79	Peak	0.00	102	Vertical	N/A
2*	54.227	34.79	-25.56	40.0	5.21	QP	0.00	102	Vertical	Pass
3	72.465	39.57	-30.41	40.0	0.43	Peak	70.00	101	Vertical	N/A
3*	72.465	34.34	-30.41	40.0	5.66	QP	70.00	101	Vertical	Pass
4	120.051	41.14	-28.36	43.5	2.36	Peak	256.00	102	Vertical	N/A
4*	120.051	37.03	-28.36	43.5	6.47	QP	256.00	102	Vertical	Pass
5	151.250	36.57	-30.10	43.5	6.93	Peak	243.00	100	Vertical	Pass
6	296.022	33.71	-23.82	46.0	12.29	Peak	151.00	100	Vertical	Pass

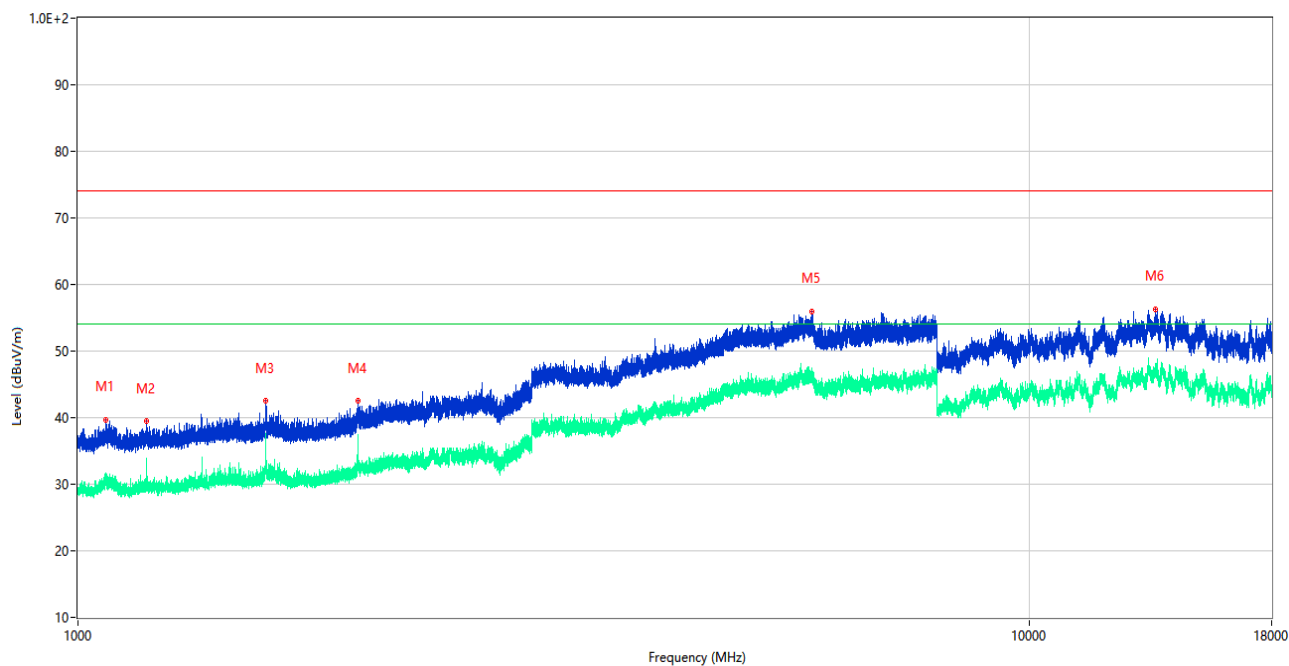
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	71.807	32.53	-30.10	40.0	7.47	Peak	170.00	200	Horizontal	Pass
2	120.307	30.79	-28.37	43.5	12.71	Peak	347.00	200	Horizontal	Pass
3	232.633	32.05	-25.44	46.0	13.95	Peak	223.00	100	Horizontal	Pass
4	298.642	36.35	-23.79	46.0	9.65	Peak	146.00	100	Horizontal	Pass
5	372.944	33.30	-21.82	46.0	12.70	Peak	281.00	200	Horizontal	Pass
6	787.521	35.40	-12.21	46.0	10.60	Peak	326.00	100	Horizontal	Pass

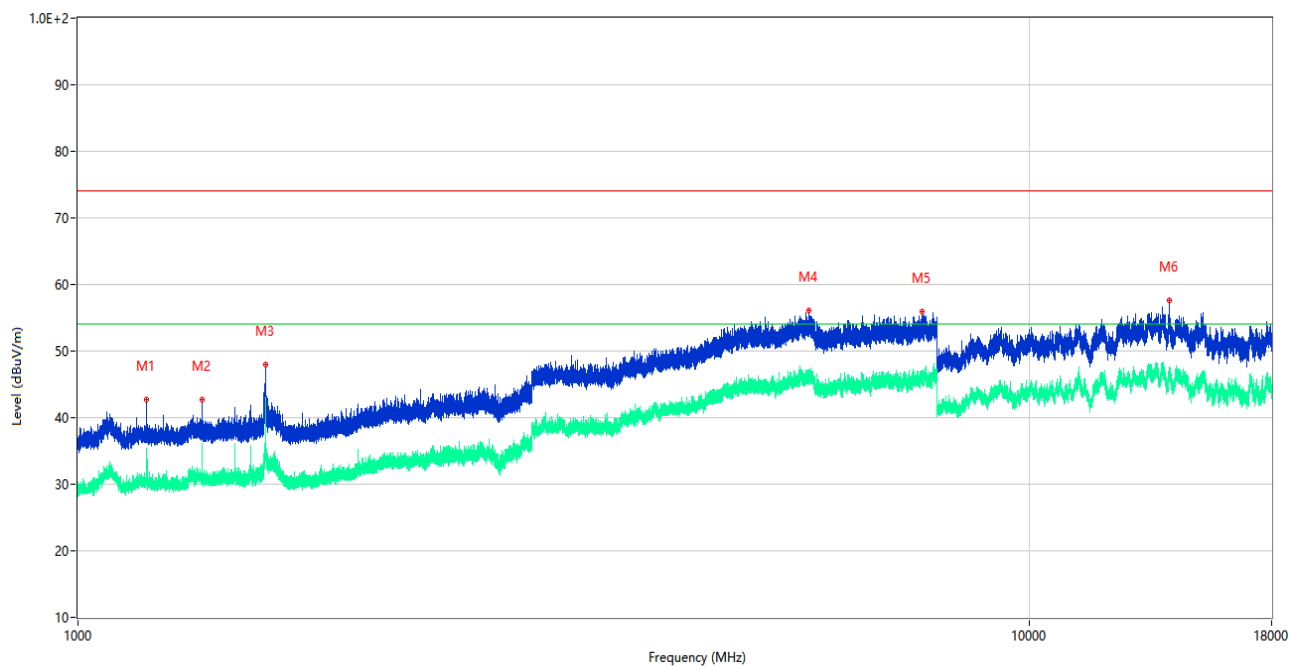
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2024.08.01	2025.07.31	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	9168-00867	2022.04.12	2025.04.11	☒
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	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	1069.500	39.74	-16.43	74.0	34.26	Peak	170.00	100	Vertical	Pass
1**	1069.500	30.29	-16.43	54.0	23.71	AV	170.00	100	Vertical	Pass
2	1181.300	39.42	-16.29	74.0	34.58	Peak	37.00	100	Vertical	Pass
2**	1181.300	33.46	-16.29	54.0	20.54	AV	37.00	100	Vertical	Pass
3	1575.100	42.49	-15.93	74.0	31.51	Peak	68.00	100	Vertical	Pass
3**	1575.100	37.47	-15.93	54.0	16.53	AV	68.00	100	Vertical	Pass
4	1968.500	42.60	-13.76	74.0	31.40	Peak	271.00	100	Vertical	Pass
4**	1968.500	36.39	-13.76	54.0	17.61	AV	271.00	100	Vertical	Pass
5	5919.250	55.96	3.50	74.0	18.04	Peak	0.00	100	Vertical	Pass
5**	5919.250	45.37	3.50	54.0	8.63	AV	0.00	100	Vertical	Pass
6	13576.500	56.28	4.73	74.0	17.72	Peak	206.00	100	Vertical	Pass
6**	13576.500	47.09	4.73	54.0	6.91	AV	206.00	100	Vertical	Pass

4) Test Antenna Horizontal, 1 GHz – 18 GHz



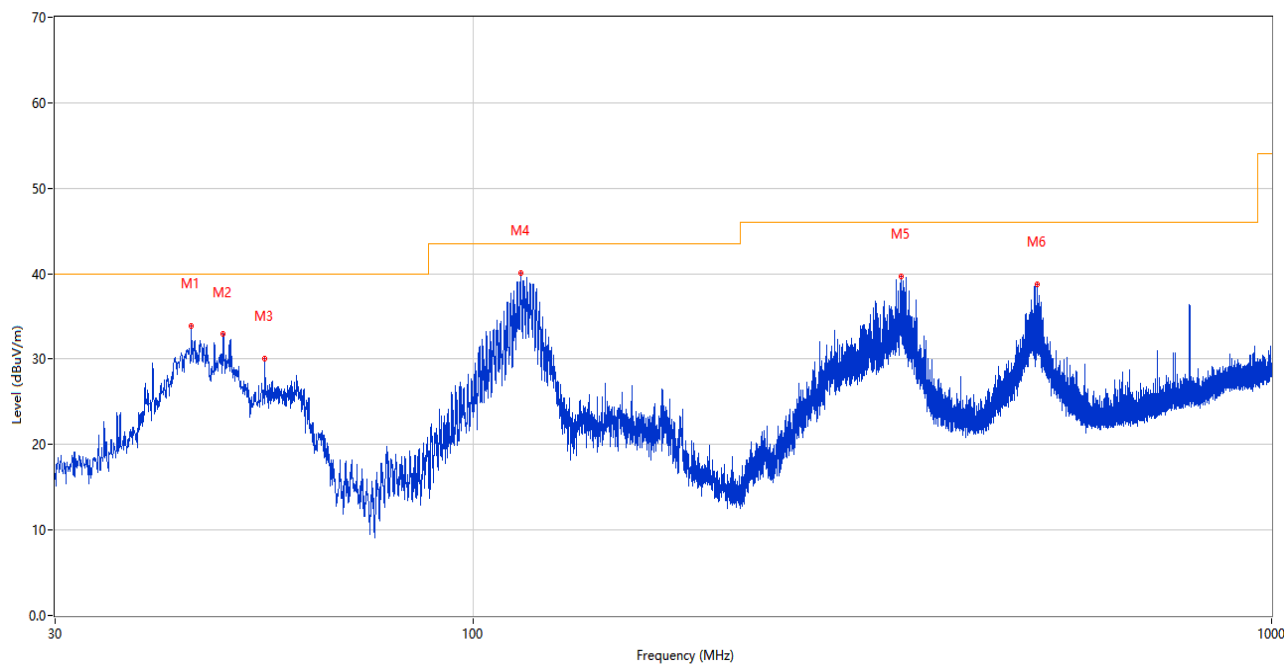
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1181.000	42.79	-16.28	74.0	31.21	Peak	0.00	100	Horizontal	Pass
1**	1181.000	33.33	-16.28	54.0	20.67	AV	0.00	100	Horizontal	Pass
2	1350.300	42.66	-15.97	74.0	31.34	Peak	313.00	100	Horizontal	Pass
2**	1350.300	35.85	-15.97	54.0	18.15	AV	313.00	100	Horizontal	Pass
3	1575.000	47.97	-15.92	74.0	26.03	Peak	12.00	100	Horizontal	Pass
3**	1575.000	42.73	-15.92	54.0	11.27	AV	12.00	100	Horizontal	Pass
4	5874.750	56.05	3.91	74.0	17.95	Peak	168.00	100	Horizontal	Pass
4**	5874.750	46.43	3.91	54.0	7.57	AV	168.00	100	Horizontal	Pass
5	7714.000	56.00	2.25	74.0	18.00	Peak	160.00	100	Horizontal	Pass
5**	7714.000	46.52	2.25	54.0	7.48	AV	160.00	100	Horizontal	Pass
6	14064.500	57.68	5.01	74.0	16.32	Peak	208.00	100	Horizontal	Pass
6**	14064.500	46.53	5.01	54.0	7.47	AV	208.00	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	2024.08.01	2025.07.31	☒
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	2024.07.21	2027.07.20	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

Sample No.	S06	Temperature	23.4℃
Humidity	50%RH	Pressure	101kPa
Test Engineer	Chen Jingran	Test Date	2024.09.07

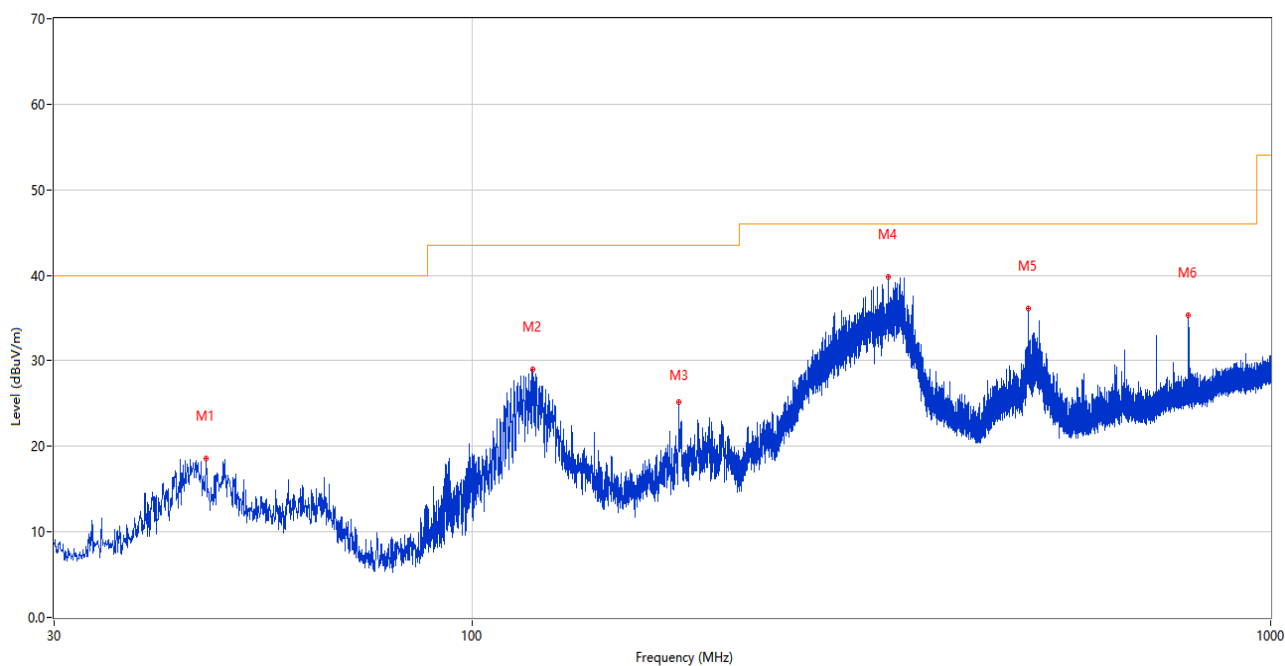
Test Mode 4

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	44.404	33.83	-25.71	40.0	6.17	Peak	223.00	100	Vertical	Pass
2	48.721	32.90	-25.36	40.0	7.10	Peak	205.00	100	Vertical	Pass
3	54.880	30.10	-25.75	40.0	9.90	Peak	106.00	100	Vertical	Pass
4	114.875	40.03	-27.39	43.5	3.47	Peak	262.00	100	Vertical	Pass
5	344.183	39.71	-22.15	46.0	6.29	Peak	193.00	100	Vertical	Pass
6	509.083	38.73	-18.43	46.0	7.27	Peak	259.00	100	Vertical	Pass

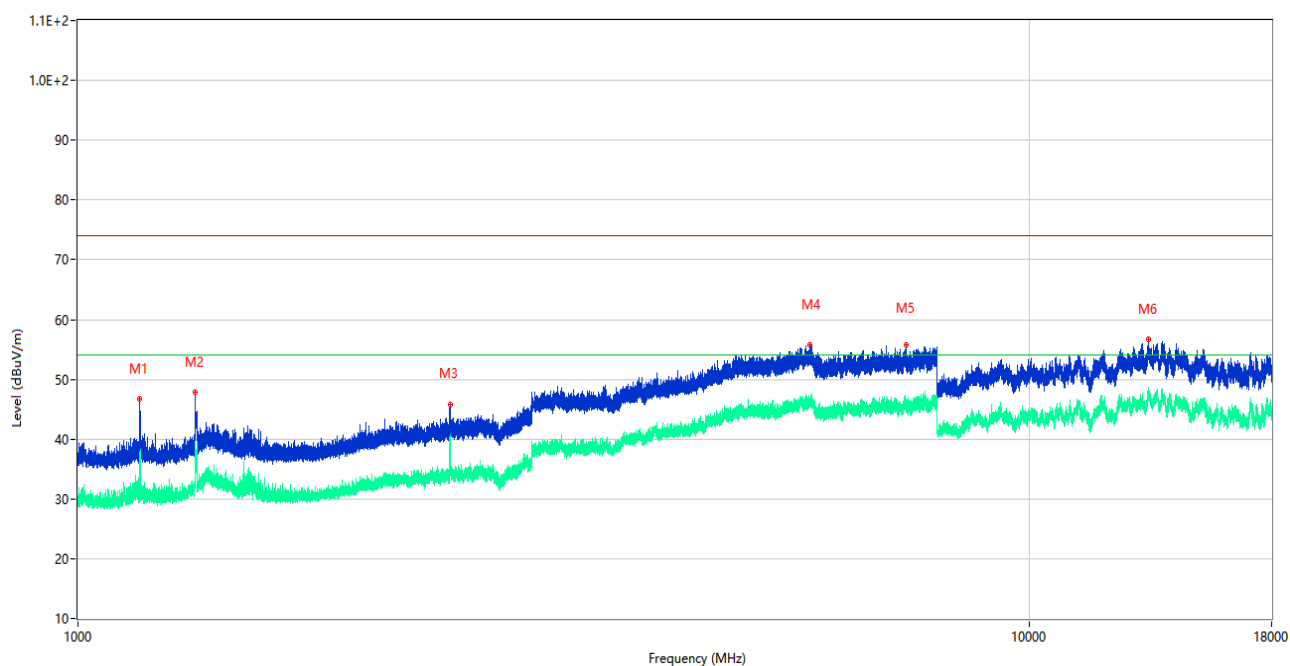
6) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	46.441	18.63	-25.56	40.0	21.37	Peak	171.00	200	Horizontal	Pass
2	119.046	28.99	-28.21	43.5	14.51	Peak	247.00	200	Horizontal	Pass
3	181.514	25.15	-28.39	43.5	18.35	Peak	274.00	200	Horizontal	Pass
4	332.398	39.86	-22.73	46.0	6.14	Peak	23.00	100	Horizontal	Pass
5	497.394	36.09	-18.80	46.0	9.91	Peak	268.00	200	Horizontal	Pass
6	788.928	35.31	-12.22	46.0	10.69	Peak	234.00	100	Horizontal	Pass

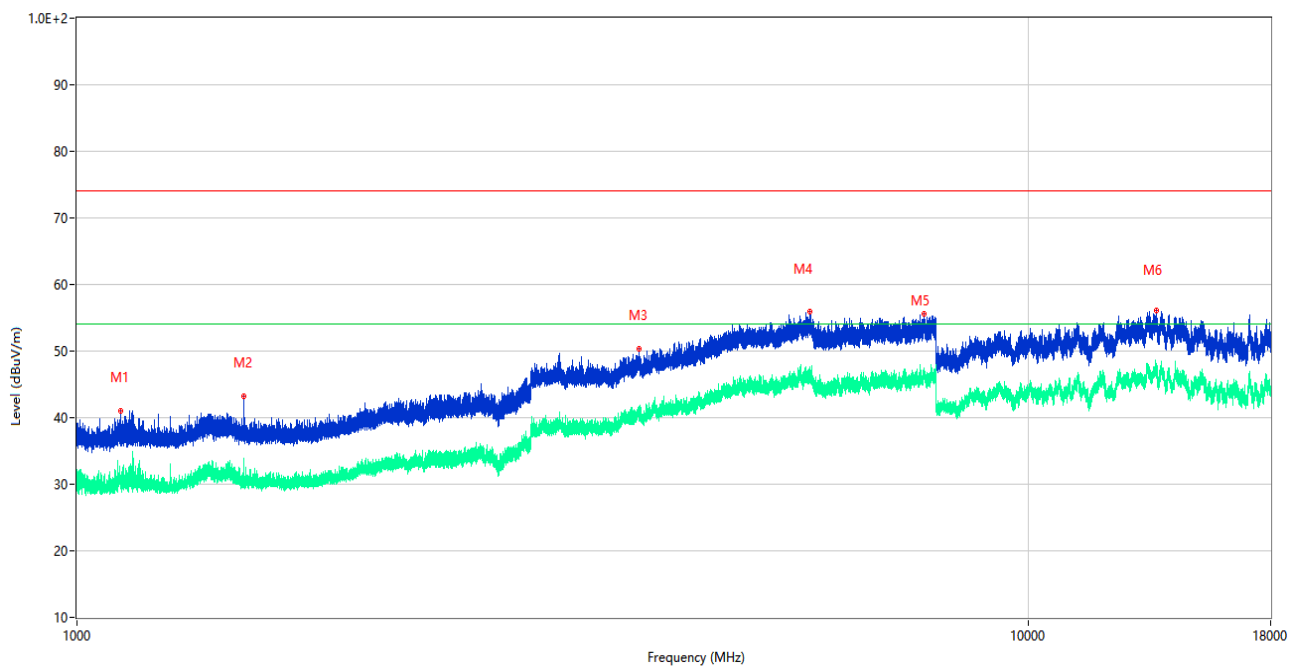
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2024.08.01	2025.07.31	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	9168-00867	2022.04.12	2025.04.11	☒
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	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	1161.900	46.80	-16.04	74.0	27.20	Peak	322.00	100	Vertical	Pass
1**	1161.900	30.97	-16.04	54.0	23.03	AV	322.00	100	Vertical	Pass
2	1329.200	47.88	-16.07	74.0	26.12	Peak	200.00	100	Vertical	Pass
2**	1329.200	39.36	-16.07	54.0	14.64	AV	200.00	100	Vertical	Pass
3	2465.400	45.80	-11.05	74.0	28.20	Peak	0.00	100	Vertical	Pass
3**	2465.400	38.54	-11.05	54.0	15.46	AV	0.00	100	Vertical	Pass
4	5886.000	55.72	3.90	74.0	18.28	Peak	70.00	100	Vertical	Pass
4**	5886.000	46.39	3.90	54.0	7.61	AV	70.00	100	Vertical	Pass
5	7421.250	55.70	2.97	74.0	18.30	Peak	303.00	100	Vertical	Pass
5**	7421.250	46.43	2.97	54.0	7.57	AV	303.00	100	Vertical	Pass
6	13344.500	56.70	5.04	74.0	17.30	Peak	182.00	100	Vertical	Pass
6**	13344.500	46.66	5.04	54.0	7.34	AV	182.00	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	1110.800	41.10	-16.27	74.0	32.90	Peak	311.00	100	Horizontal	Pass
1**	1110.800	31.25	-16.27	54.0	22.75	AV	311.00	100	Horizontal	Pass
2	1498.300	43.25	-16.11	74.0	30.75	Peak	302.00	100	Horizontal	Pass
2**	1498.300	30.40	-16.11	54.0	23.60	AV	302.00	100	Horizontal	Pass
3	3902.750	50.39	-1.14	74.0	23.61	Peak	360.00	100	Horizontal	Pass
3**	3902.750	39.84	-1.14	54.0	14.16	AV	360.00	100	Horizontal	Pass
4	5902.750	55.92	3.75	74.0	18.08	Peak	264.00	100	Horizontal	Pass
4**	5902.750	46.57	3.75	54.0	7.43	AV	264.00	100	Horizontal	Pass
5	7774.750	55.63	3.06	74.0	18.37	Peak	256.00	100	Horizontal	Pass
5**	7774.750	46.35	3.06	54.0	7.65	AV	256.00	100	Horizontal	Pass
6	13637.000	56.16	5.02	74.0	17.84	Peak	37.00	100	Horizontal	Pass
6**	13637.000	47.98	5.02	54.0	6.02	AV	37.00	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	2024.08.01	2025.07.31	☒
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	2024.07.21	2027.07.20	
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

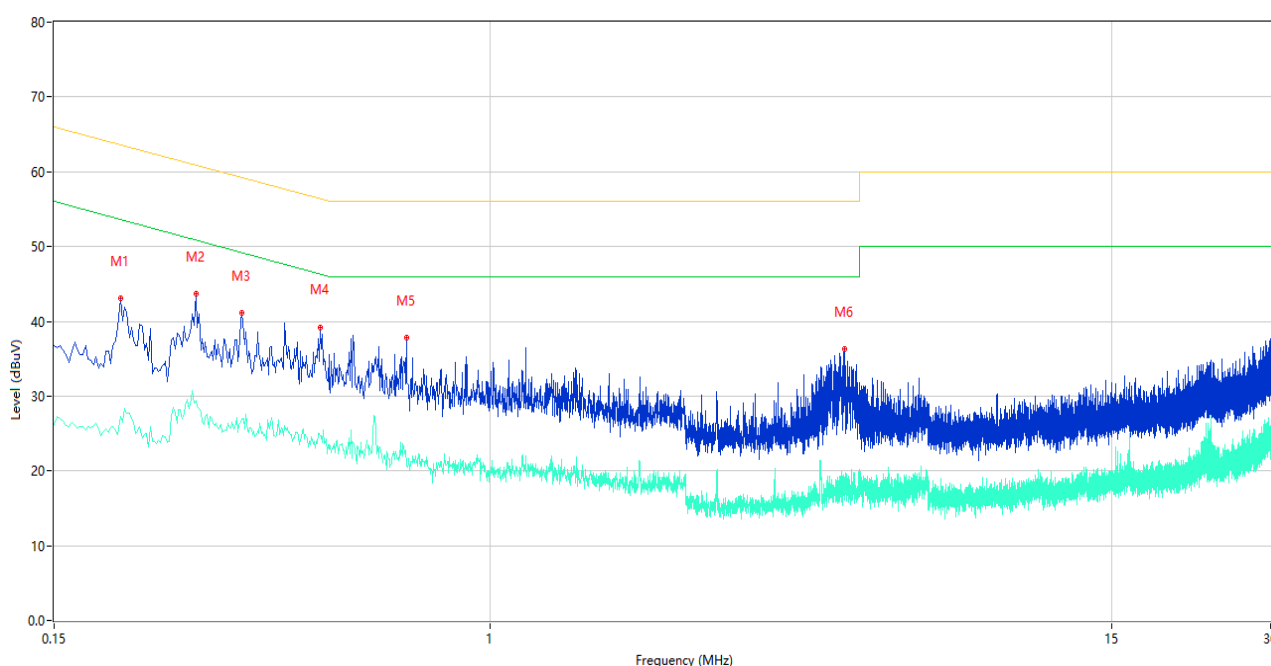
A.2 Conducted Emission, AC Ports

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.	S06	Temperature	23.4℃
Humidity	50%RH	Pressure	101kPa
Test Engineer	Yang Yang	Test Date	2024.08.31

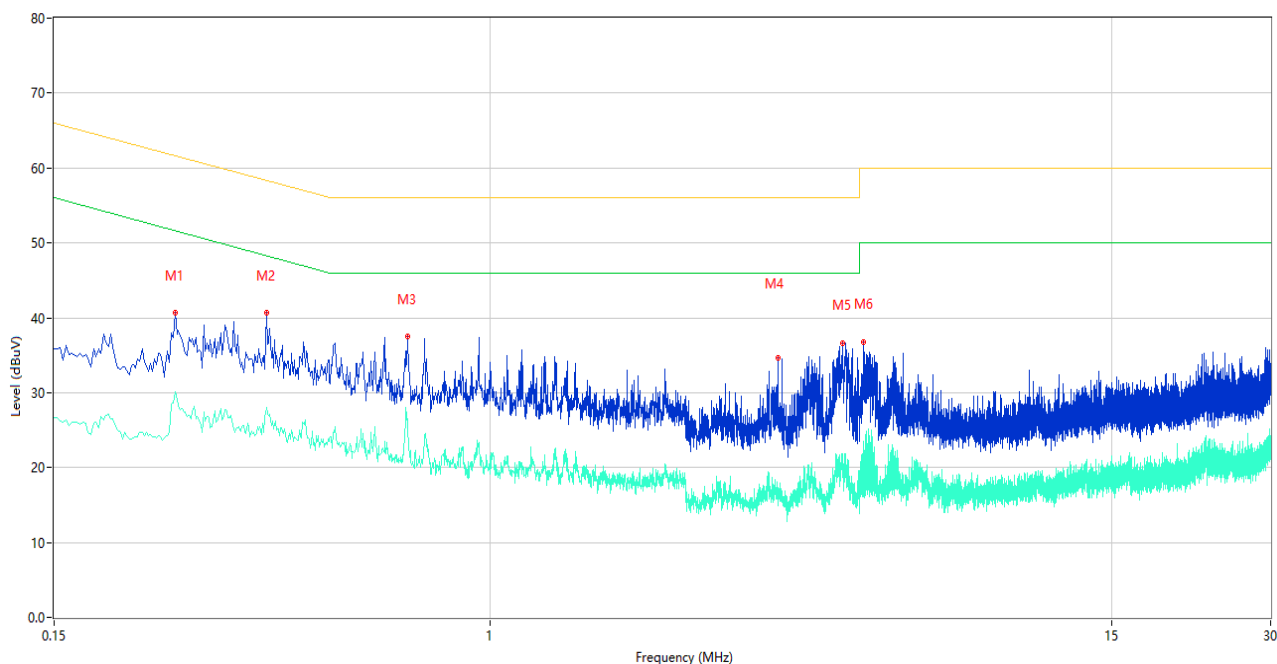
Test Mode 2

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.200	43.09	10.06	63.61	20.52	Peak	L	Pass
1**	0.200	27.22	10.06	53.61	26.39	AV	L	Pass
2	0.278	43.70	10.08	60.88	17.18	Peak	L	Pass
2**	0.278	29.42	10.08	50.88	21.46	AV	L	Pass
3	0.340	41.16	10.01	59.20	18.04	Peak	L	Pass
3**	0.340	27.04	10.01	49.20	22.16	AV	L	Pass
4	0.478	39.23	10.47	56.37	17.14	Peak	L	Pass
4**	0.478	24.66	10.47	46.37	21.71	AV	L	Pass
5	0.696	37.85	10.77	56.00	18.15	Peak	L	Pass
5**	0.696	21.67	10.77	46.00	24.33	AV	L	Pass
6	4.692	36.29	10.74	56.00	19.71	Peak	L	Pass
6**	4.692	17.48	10.74	46.00	28.52	AV	L	Pass

2) AC Ports - N Phase



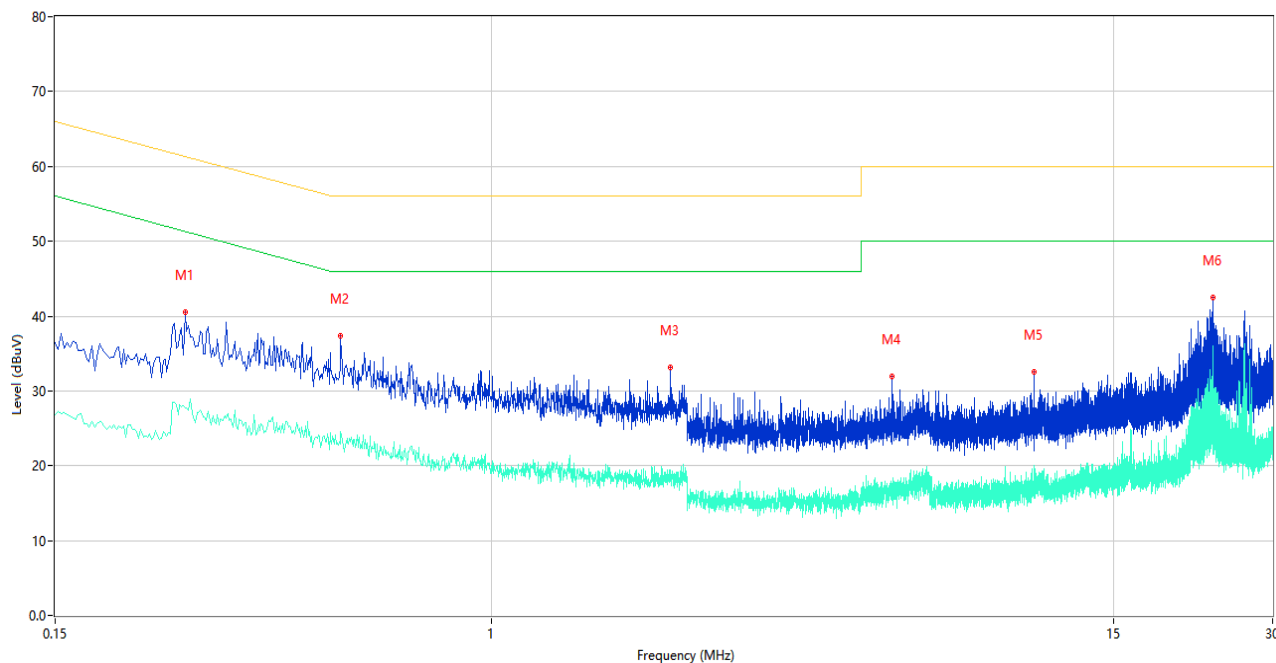
No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.254	40.65	10.07	61.63	20.98	Peak	N	Pass
1**	0.254	30.11	10.07	51.63	21.52	AV	N	Pass
2	0.378	40.67	10.38	58.32	17.65	Peak	N	Pass
2**	0.378	28.03	10.38	48.32	20.29	AV	N	Pass
3	0.700	37.49	10.80	56.00	18.51	Peak	N	Pass
3**	0.700	25.73	10.80	46.00	20.27	AV	N	Pass
4	3.508	34.65	10.89	56.00	21.35	Peak	N	Pass
4**	3.508	17.31	10.89	46.00	28.69	AV	N	Pass
5	4.650	36.68	10.58	56.00	19.32	Peak	N	Pass
5**	4.650	20.37	10.58	46.00	25.63	AV	N	Pass
6	5.104	36.77	10.52	60.00	23.23	Peak	N	Pass
6**	5.104	22.57	10.52	50.00	27.43	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	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	/		☒

Sample No.	S06	Temperature	23.4℃
Humidity	50%RH	Pressure	101kPa
Test Engineer	Yang Yang	Test Date	2024.09.04

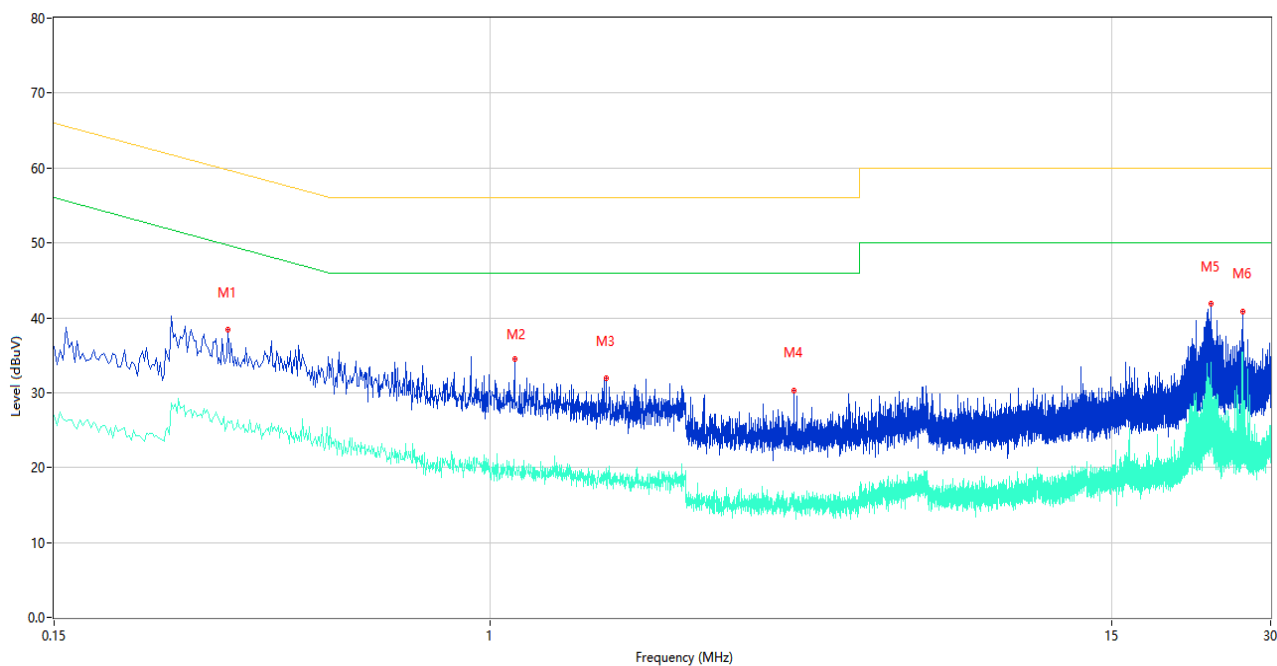
Test Mode 4

3) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.264	40.48	10.08	61.30	20.82	Peak	L	Pass
1**	0.264	27.67	10.08	51.30	23.63	AV	L	Pass
2	0.520	37.34	10.42	56.00	18.66	Peak	L	Pass
2**	0.520	24.51	10.42	46.00	21.49	AV	L	Pass
3	2.186	33.16	10.64	56.00	22.84	Peak	L	Pass
3**	2.186	19.38	10.64	46.00	26.62	AV	L	Pass
4	5.714	31.94	11.00	60.00	28.06	Peak	L	Pass
4**	5.714	17.23	11.00	50.00	32.77	AV	L	Pass
5	10.638	32.51	11.53	60.00	27.49	Peak	L	Pass
5**	10.638	18.02	11.53	50.00	31.98	AV	L	Pass
6	23.126	42.49	13.24	60.00	17.51	Peak	L	Pass
6**	23.126	35.98	13.24	50.00	14.02	AV	L	Pass

4) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.320	38.46	10.05	59.71	21.25	Peak	N	Pass
1**	0.320	26.17	10.05	49.71	23.54	AV	N	Pass
2	1.114	34.47	10.48	56.00	21.53	Peak	N	Pass
2**	1.114	19.43	10.48	46.00	26.57	AV	N	Pass
3	1.660	31.92	10.67	56.00	24.08	Peak	N	Pass
3**	1.660	18.77	10.67	46.00	27.23	AV	N	Pass
4	3.764	30.34	10.83	56.00	25.66	Peak	N	Pass
4**	3.764	14.12	10.83	46.00	31.88	AV	N	Pass
5	23.124	41.85	13.24	60.00	18.15	Peak	N	Pass
5**	23.124	33.14	13.24	50.00	16.86	AV	N	Pass
6	26.608	40.90	14.15	60.00	19.10	Peak	N	Pass
6**	26.608	35.45	14.15	50.00	14.55	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	SCHWARZBECK	NSLK 8127	8127-687	2024.05.09	2025.05.08	☒
ISN	TESEQ	ISN T800	34449	2023.11.10	2024.11.09	☐
ISN	TESEQ	ISN T8-Cat6	53561	2024.04.24	2025.04.23	☐
Shielded Room	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	2022.02.19	2025.02.18	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2480856-AE.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2480856-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2480856-AI.PDF”.

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--END OF REPORT--