

TEST REPORT

Applicant: Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address: NO.18 HaiBin Road, Wusha Village, Chang'an Town, DongGuan City, Guangdong Province, P.R. China
Equipment Type: Tablet
Model Name: OPD2419
Brand Name: OPPO
FCC ID: R9C-OP-24978
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Feb. 20, 2025
Test Date: Feb. 26, 2025 - Feb. 27, 2025
Date of Issue: Mar. 19, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

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

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Mar. 19, 2025</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	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	NO.18 HaiBin Road, Wusha Village, Chang'an Town, DongGuan City, Guangdong Province, P.R. China

2.2 Manufacturer Information

Manufacturer	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	NO.18 HaiBin Road, Wusha Village, Chang'an Town, DongGuan City, Guangdong Province, P.R. China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Tablet
Model Name Under Test	OPD2419
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	OPD2419_11
Software Version	ColorOS 15
Dimensions (Approx.)	255.14mm(L)X 188.06mm(W)X6.89mm(H)
Weight (Approx.)	545g
EUT ID	S09
Serial Number	S09: H621519000044F1F004G

2.4 Ancillary Equipment

Ancillary Equipment 1	Li-Polymer Battery 1	
	Brand Name	SUPERVOOC
	Model No.	BLT015
	Serial No.	N/A
	Capacitance	Rated: 9098mAh/35.12Wh Typical: 9340mAh/36.06Wh
	Rated Voltage	3.86 Vdc
	Limited Voltage	4.48 Vdc
	Manufacturer	Dongguan NVT Technology Co., Ltd.
Ancillary Equipment 2	Power Supply Unit 1	
	Brand Name	SUPERVOOC
	Model No.	OP53JAUH
	Serial No.	N/A
	Rated Input	100-240VAC 50/60Hz 0.5A
	Rated Output	5.0VDC 3.0A 15.0W
	Manufacturer	Huizhou Golden Lake Industrial Co., Ltd.
Ancillary Equipment 3	USB Cable	
	Model No.	DL154
	Length (Approx.)	1.0 m

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)
Classification of equipment	Class B
The highest internal frequency of EUT	5850MHz

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	☒
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	☒
Wireless Communications Test Set	R&S	CMW500	102318	N/A	Cal. Due 2025.05.08	☒

4.2 Test Configurations

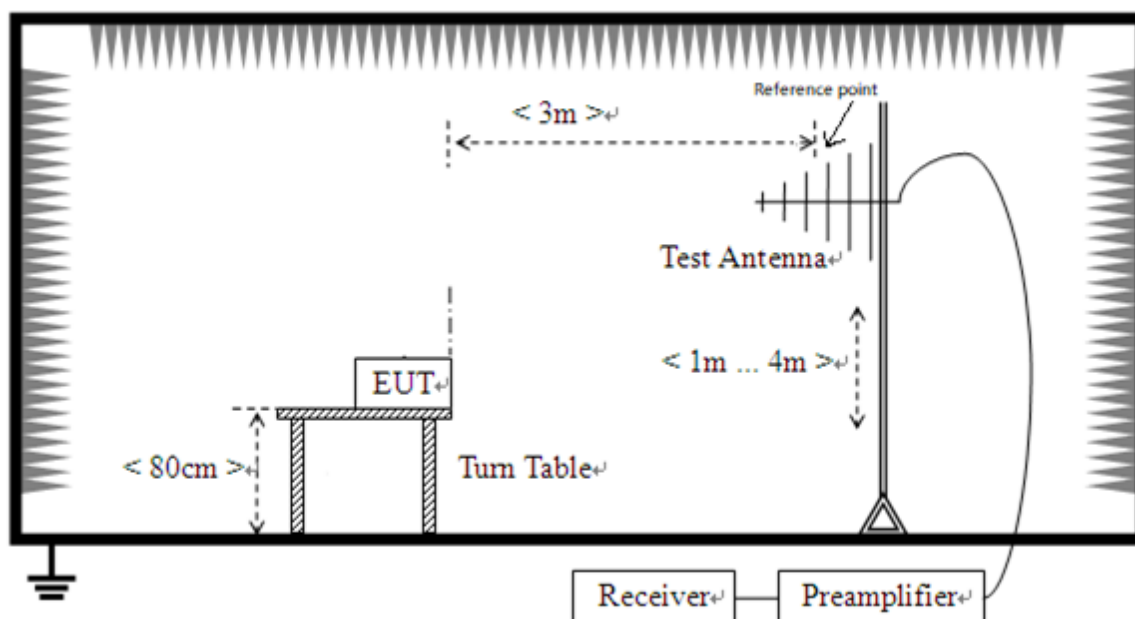
All test modes of EUT are listed in the table below.

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

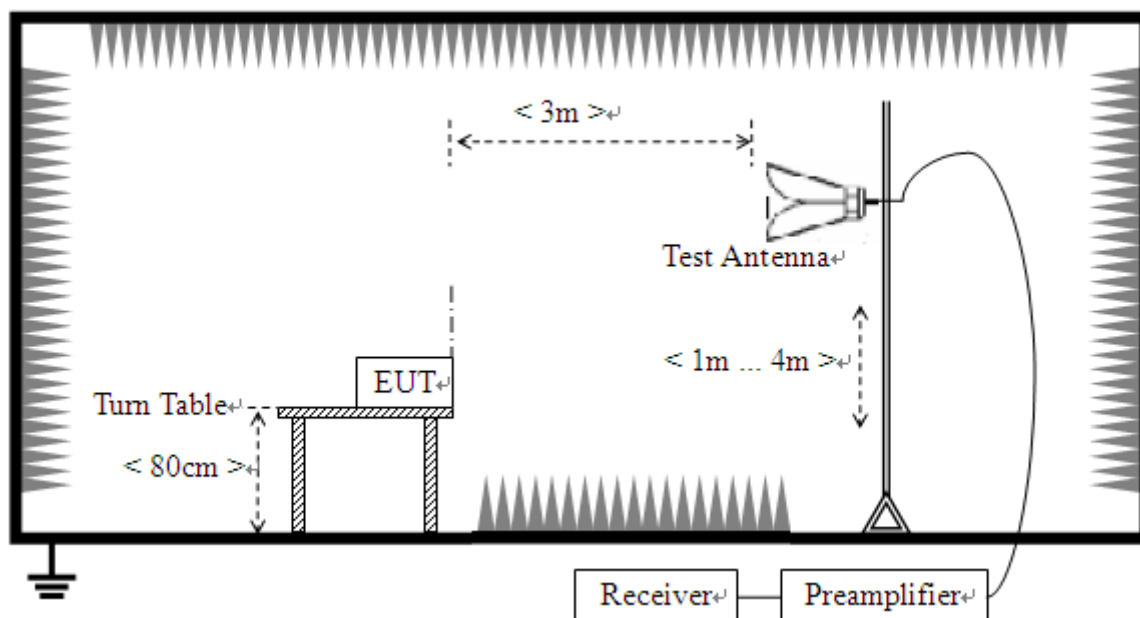
Test Case	Test Mode Configuration	Worst Mode
Radiated Emission	Mode 1~Mode 7	4, 5
Conducted Emission, AC Ports	Mode 1~Mode 5	4, 5
Note: All operation modes were tested, but only test data of the worst mode was presented in this report.		

4.3 Test Setups

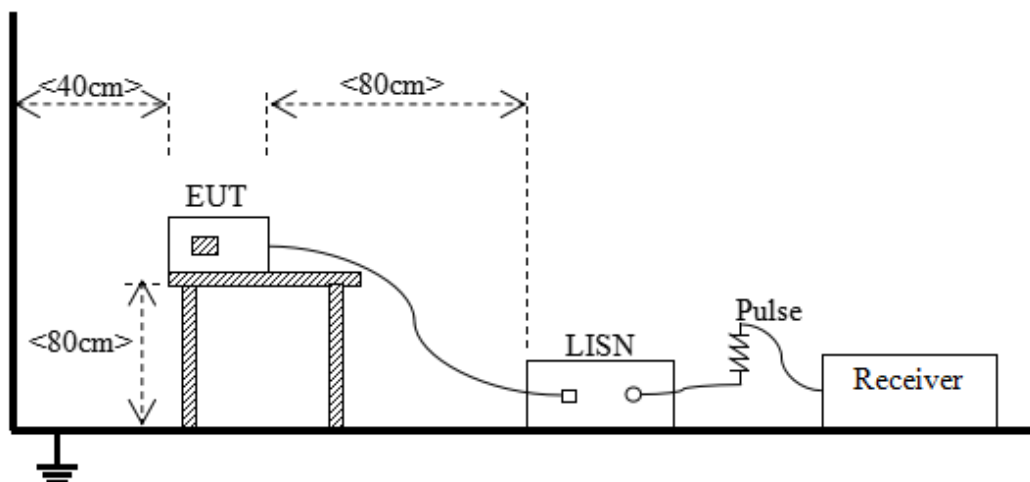
Test Setup 1



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.

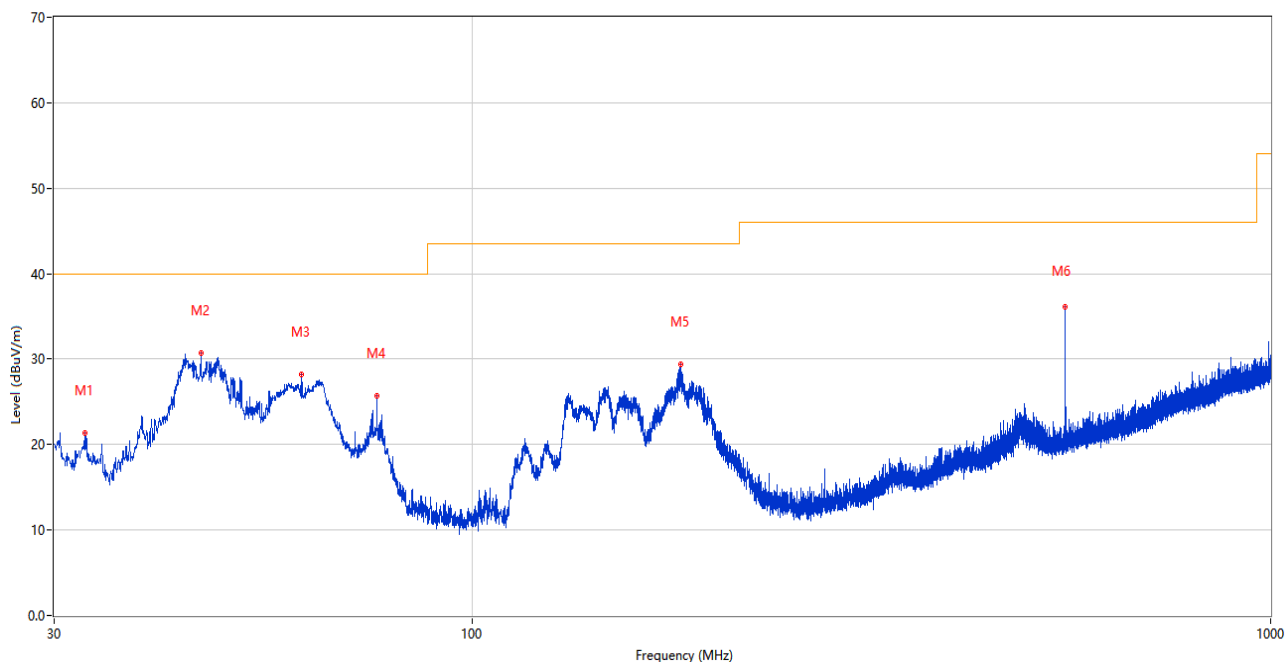
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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.	S09	Temperature	22.7℃
Humidity	42%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2025.02.27

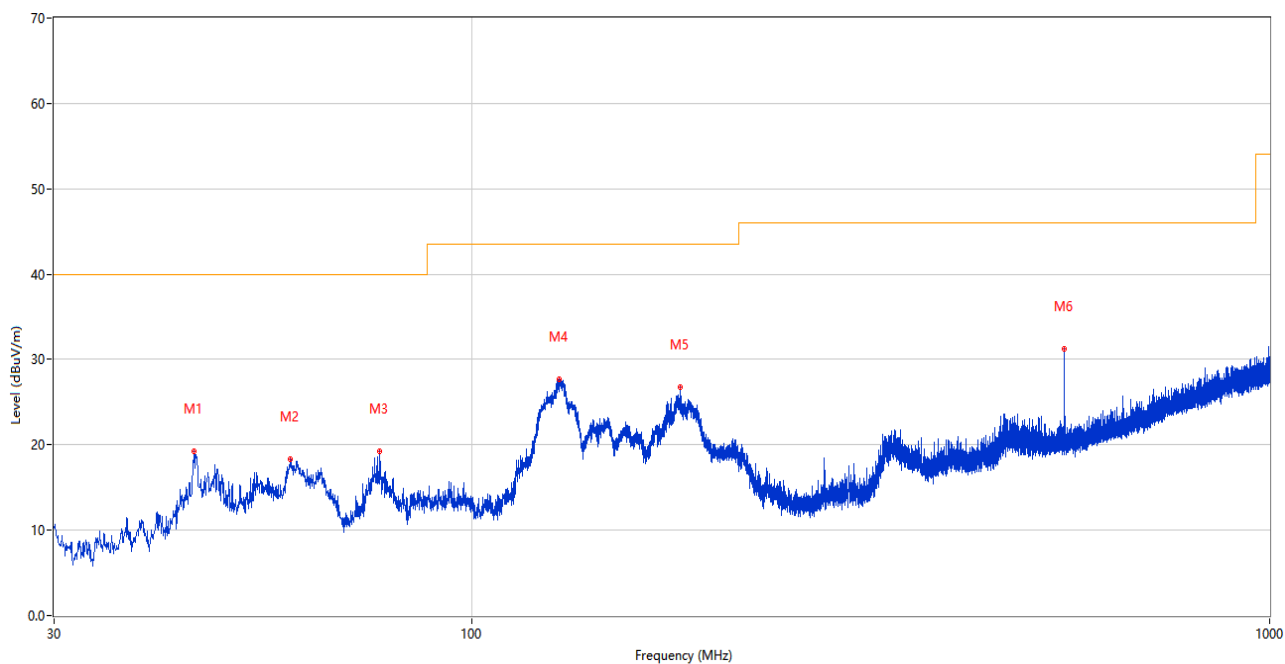
Test Mode 4

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	32.764	21.38	-28.86	40.0	18.62	Peak	274.00	100	Vertical	Pass
2	45.763	30.71	-26.04	40.0	9.29	Peak	266.00	100	Vertical	Pass
3	61.137	28.23	-26.89	40.0	11.77	Peak	82.00	100	Vertical	Pass
4	76.075	25.69	-31.02	40.0	14.31	Peak	114.00	100	Vertical	Pass
5	182.387	29.35	-27.96	43.5	14.15	Peak	9.00	100	Vertical	Pass
6	553.509	36.13	-17.42	46.0	9.87	Peak	340.00	100	Vertical	Pass

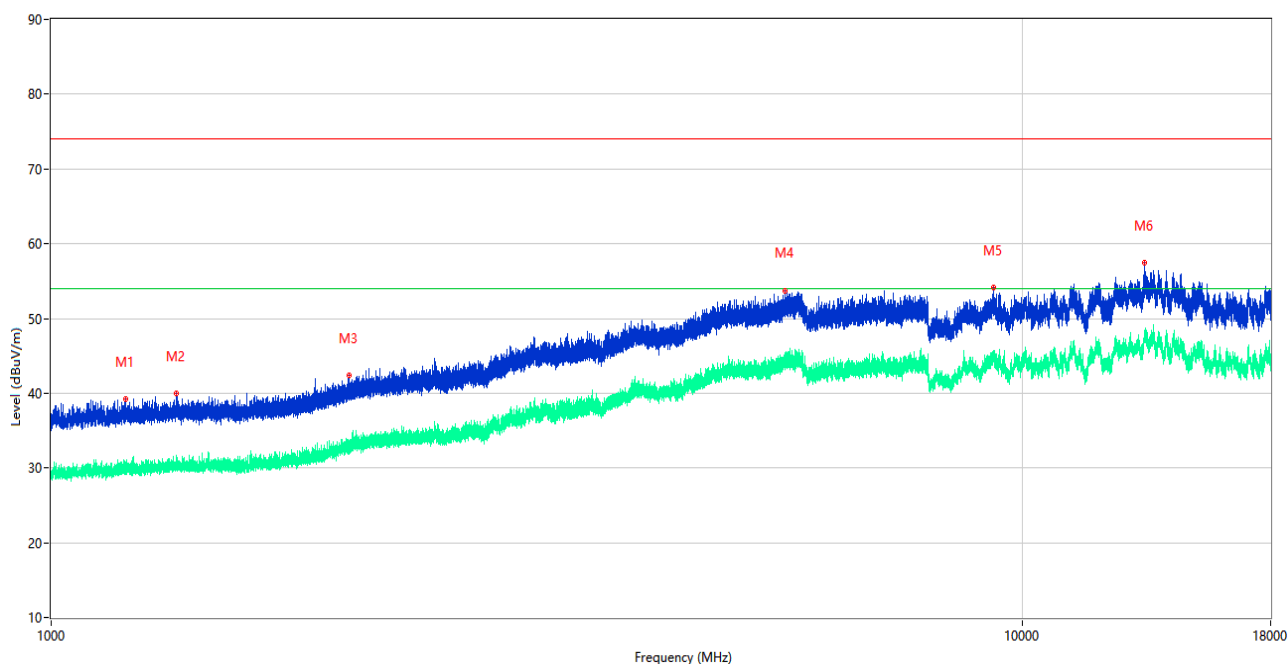
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	44.889	19.23	-26.13	40.0	20.77	Peak	0.00	200	Horizontal	Pass
2	59.294	18.36	-26.64	40.0	21.64	Peak	37.00	100	Horizontal	Pass
3	76.802	19.28	-30.93	40.0	20.72	Peak	131.00	200	Horizontal	Pass
4	128.843	27.72	-29.93	43.5	15.78	Peak	103.00	200	Horizontal	Pass
5	182.484	26.71	-27.94	43.5	16.79	Peak	237.00	200	Horizontal	Pass
6	553.509	31.27	-17.42	46.0	14.73	Peak	42.00	200	Horizontal	Pass

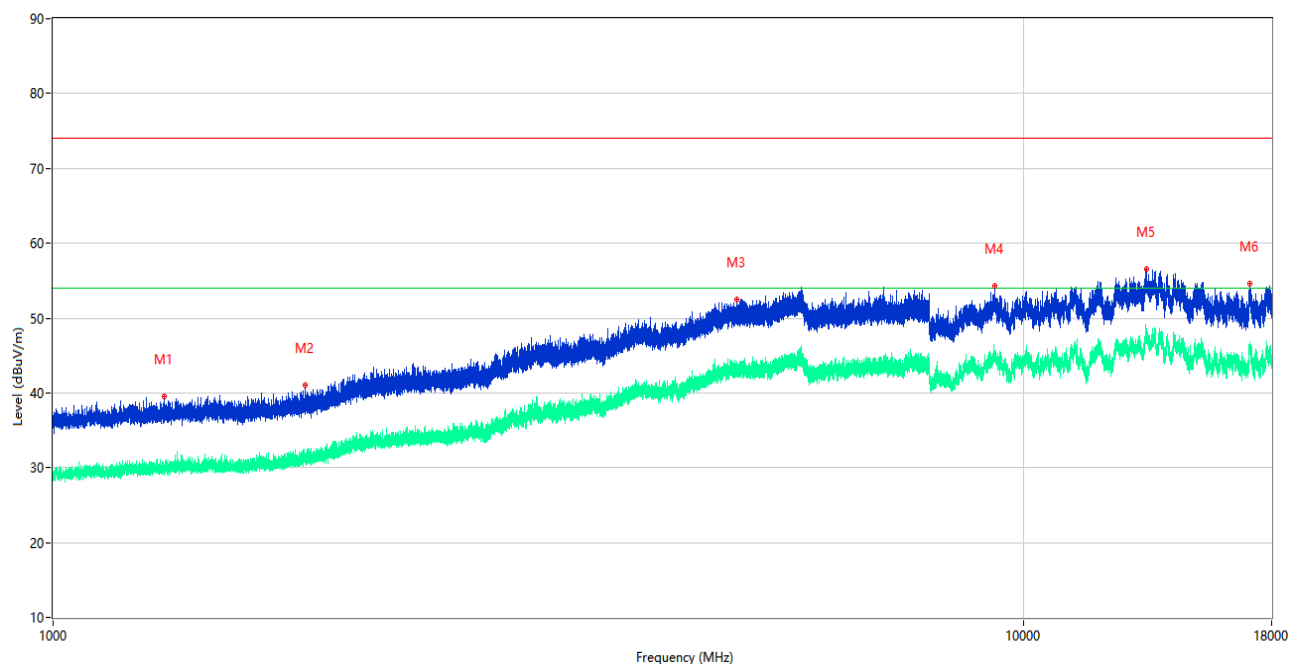
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2024.08.01	2025.07.31	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2024.11.28	2025.11.27	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	9168-00867	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	1192.920	39.16	-15.76	74.0	34.84	Peak	0.00	100	Vertical	Pass
1**	1192.920	30.14	-15.76	54.0	23.86	AV	0.00	100	Vertical	Pass
2	1345.670	39.97	-15.47	74.0	34.03	Peak	32.00	100	Vertical	Pass
2**	1345.670	30.82	-15.47	54.0	23.18	AV	32.00	100	Vertical	Pass
3	2023.750	42.44	-13.17	74.0	31.56	Peak	320.00	100	Vertical	Pass
3**	2023.750	32.29	-13.17	54.0	21.71	AV	320.00	100	Vertical	Pass
4	5688.900	53.74	0.76	74.0	20.26	Peak	101.00	100	Vertical	Pass
4**	5688.900	44.80	0.76	54.0	9.20	AV	101.00	100	Vertical	Pass
5	9324.000	54.12	2.17	74.0	19.88	Peak	103.00	100	Vertical	Pass
5**	9324.000	45.21	2.17	54.0	8.79	AV	103.00	100	Vertical	Pass
6	13351.999	57.45	5.22	74.0	16.55	Peak	65.00	100	Vertical	Pass
6**	13351.999	47.94	5.22	54.0	6.06	AV	65.00	100	Vertical	Pass

4) Test Antenna Horizontal, 1 GHz – 18 GHz



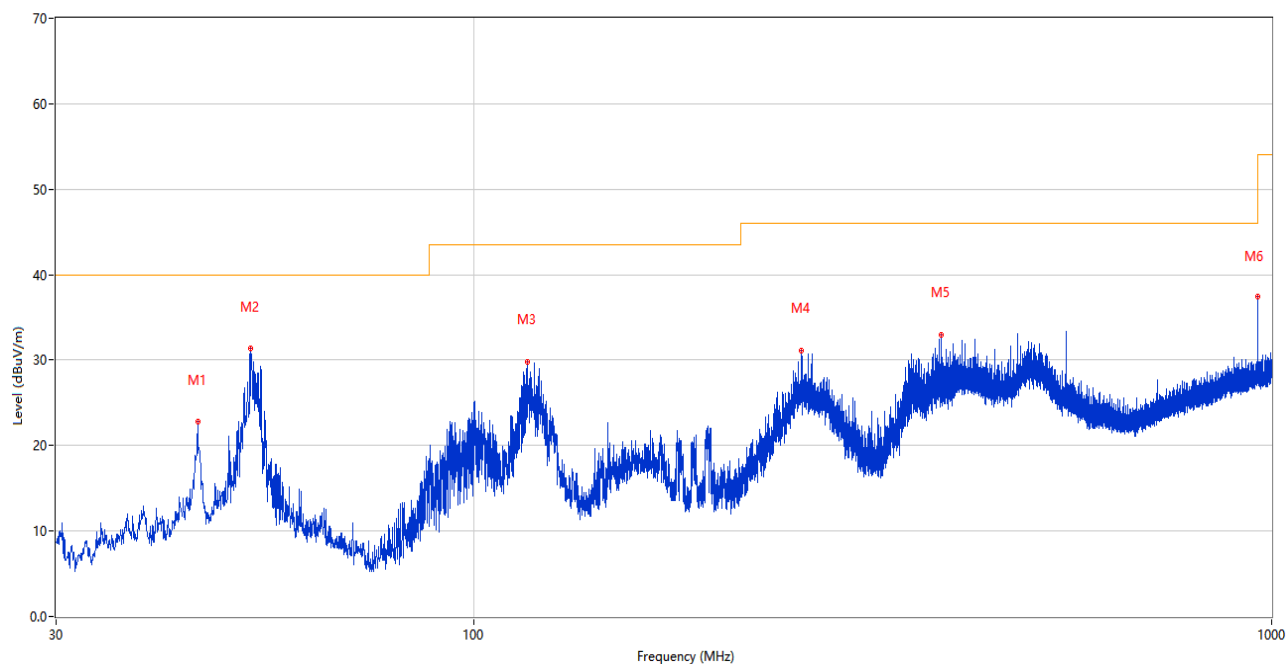
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1301.340	39.46	-15.48	74.0	34.54	Peak	37.00	100	Horizontal	Pass
1**	1301.340	29.90	-15.48	54.0	24.10	AV	37.00	100	Horizontal	Pass
2	1816.530	40.99	-14.98	74.0	33.01	Peak	149.00	100	Horizontal	Pass
2**	1816.530	31.29	-14.98	54.0	22.71	AV	149.00	100	Horizontal	Pass
3	5066.300	52.49	-0.16	74.0	21.51	Peak	14.00	100	Horizontal	Pass
3**	5066.300	42.67	-0.16	54.0	11.33	AV	14.00	100	Horizontal	Pass
4	9334.000	54.31	2.16	74.0	19.69	Peak	360.00	100	Horizontal	Pass
4**	9334.000	44.97	2.16	54.0	9.03	AV	360.00	100	Horizontal	Pass
5	13393.500	56.51	4.94	74.0	17.49	Peak	298.00	100	Horizontal	Pass
5**	13393.500	47.30	4.94	54.0	6.70	AV	298.00	100	Horizontal	Pass
6	17097.000	54.64	3.63	74.0	19.36	Peak	219.00	100	Horizontal	Pass
6**	17097.000	46.38	3.63	54.0	7.62	AV	219.00	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	☒
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	/		☒

Sample No.	S09	Temperature	22.7℃
Humidity	42%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2025.02.27

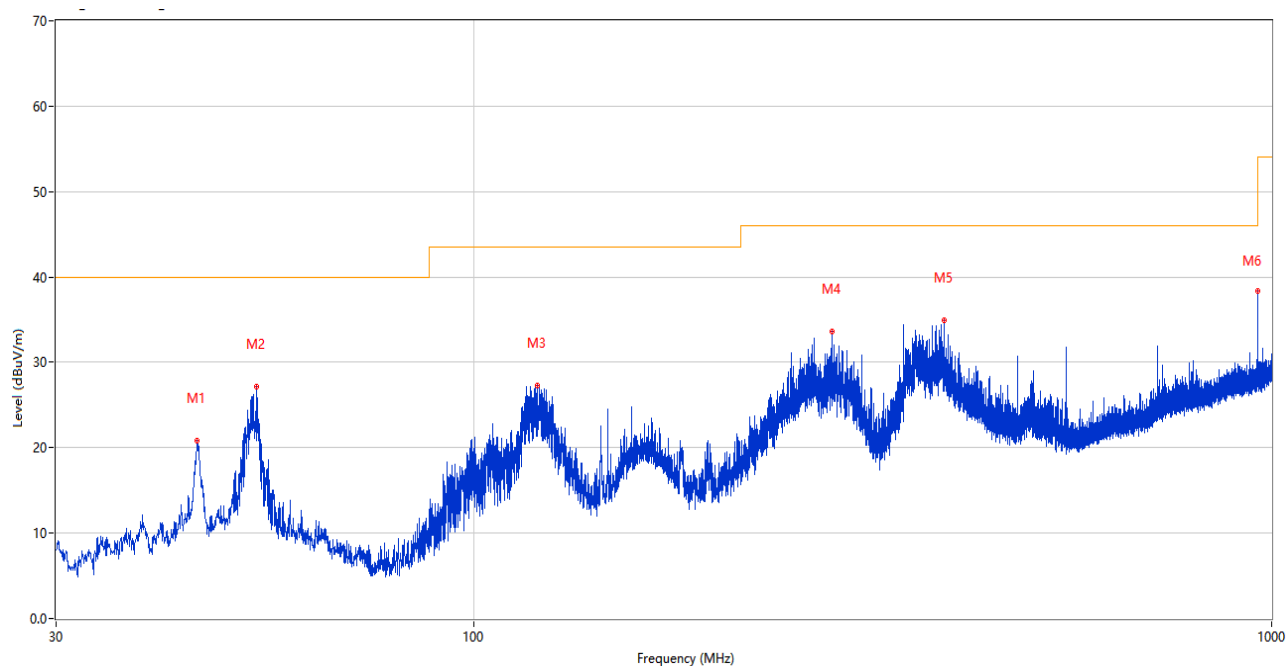
Test Mode 5

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	45.181	22.74	-26.01	40.0	17.26	Peak	111.00	200	Vertical	Pass
2	52.553	31.31	-25.17	40.0	8.69	Peak	61.00	100	Vertical	Pass
3	116.864	29.79	-27.52	43.5	13.71	Peak	17.00	100	Vertical	Pass
4	257.805	31.16	-24.84	46.0	14.84	Peak	164.00	200	Vertical	Pass
5	385.796	32.97	-21.43	46.0	13.03	Peak	140.00	100	Vertical	Pass
6	960.036	37.49	-9.09	54.0	16.51	Peak	20.00	100	Vertical	Pass

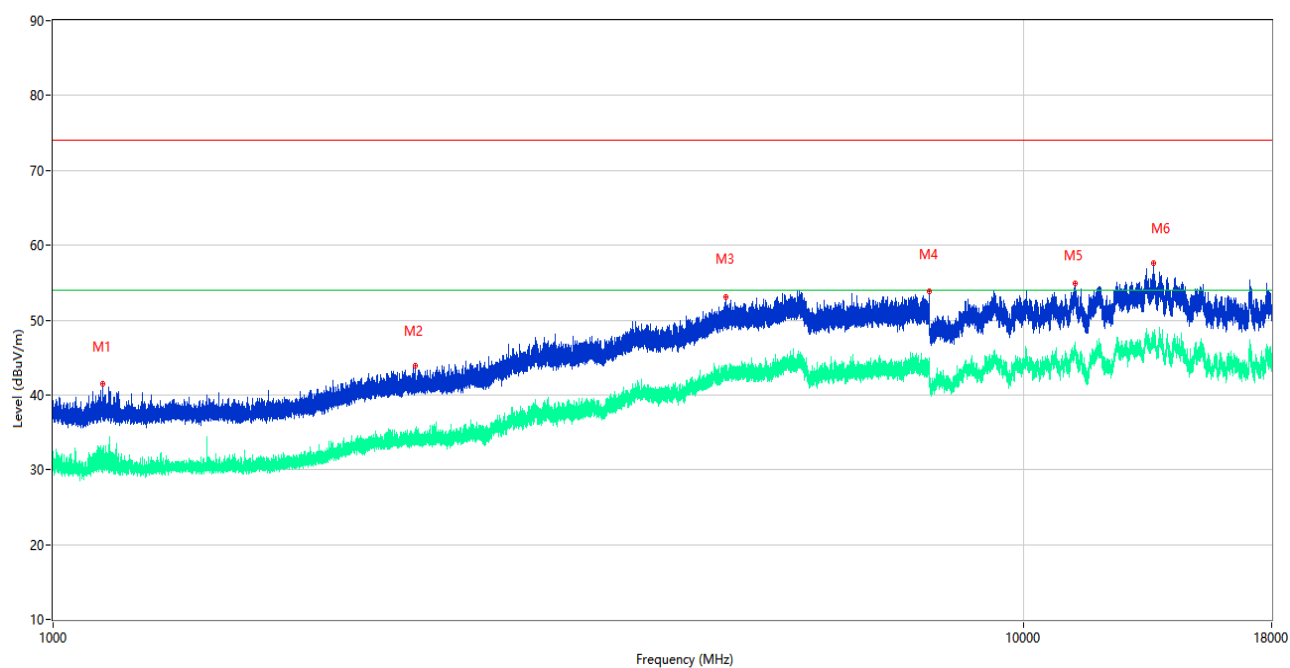
6) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	45.084	20.88	-26.05	40.0	19.12	Peak	106.00	100	Horizontal	Pass
2	53.523	27.21	-25.20	40.0	12.79	Peak	325.00	200	Horizontal	Pass
3	120.113	27.25	-28.62	43.5	16.25	Peak	118.00	200	Horizontal	Pass
4	280.987	33.62	-24.19	46.0	12.38	Peak	238.00	100	Horizontal	Pass
5	388.900	34.98	-21.40	46.0	11.02	Peak	269.00	100	Horizontal	Pass
6	960.036	38.35	-9.09	54.0	15.65	Peak	194.00	100	Horizontal	Pass

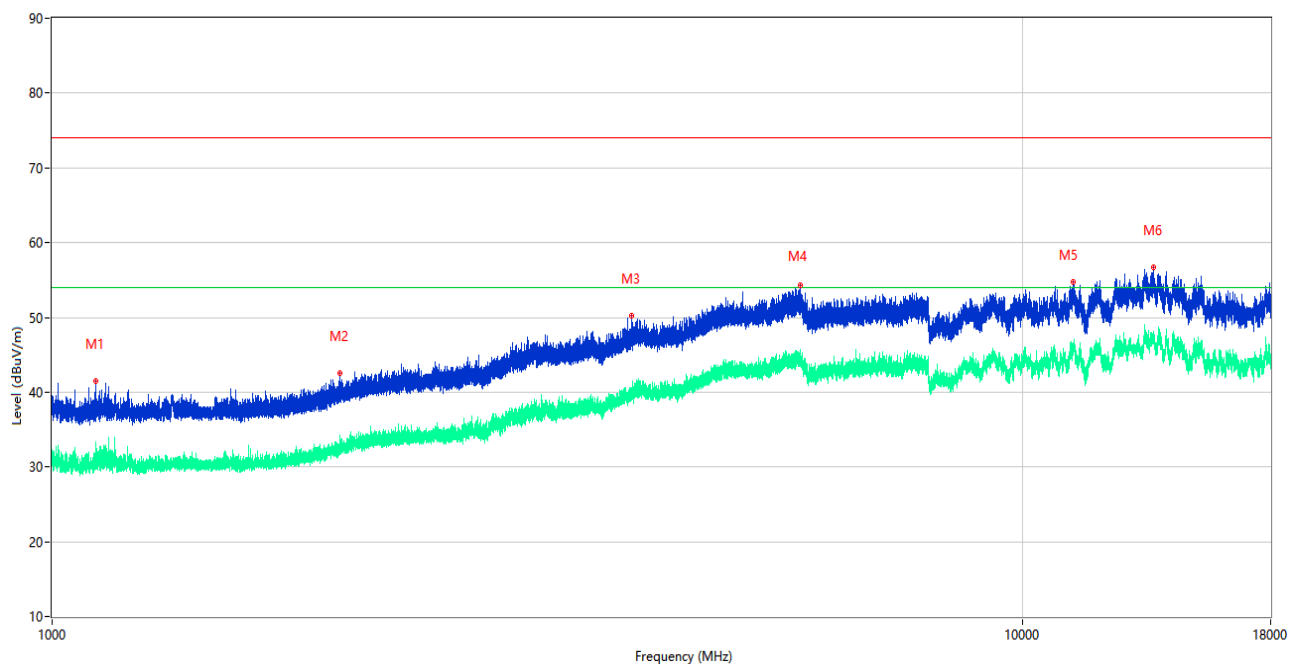
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2024.08.01	2025.07.31	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2024.11.28	2025.11.27	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	9168-00867	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	1125.580	41.49	-15.78	74.0	32.51	Peak	63.00	100	Vertical	Pass
1**	1125.580	32.43	-15.78	54.0	21.57	AV	63.00	100	Vertical	Pass
2	2360.840	43.96	-10.87	74.0	30.04	Peak	101.00	100	Vertical	Pass
2**	2360.840	34.44	-10.87	54.0	19.56	AV	101.00	100	Vertical	Pass
3	4931.220	53.14	0.52	74.0	20.86	Peak	138.00	100	Vertical	Pass
3**	4931.220	43.01	0.52	54.0	10.99	AV	138.00	100	Vertical	Pass
4	7984.820	53.82	0.48	74.0	20.18	Peak	156.00	100	Vertical	Pass
4**	7984.820	43.54	0.48	54.0	10.46	AV	156.00	100	Vertical	Pass
5	11297.000	54.87	2.36	74.0	19.13	Peak	142.00	100	Vertical	Pass
5**	11297.000	46.20	2.36	54.0	7.80	AV	142.00	100	Vertical	Pass
6	13611.000	57.54	4.80	74.0	16.46	Peak	285.00	100	Vertical	Pass
6**	13611.000	46.91	4.80	54.0	7.09	AV	285.00	100	Vertical	Pass

8) Test Antenna Horizontal, 1 GHz – 6 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1108.290	41.42	-15.61	74.0	32.58	Peak	84.00	100	Horizontal	Pass
1**	1108.290	30.65	-15.61	54.0	23.35	AV	84.00	100	Horizontal	Pass
2	1980.590	42.58	-13.23	74.0	31.42	Peak	288.00	100	Horizontal	Pass
2**	1980.590	32.61	-13.23	54.0	21.39	AV	288.00	100	Horizontal	Pass
3	3955.520	50.17	-1.94	74.0	23.83	Peak	270.00	100	Horizontal	Pass
3**	3955.520	39.95	-1.94	54.0	14.05	AV	270.00	100	Horizontal	Pass
4	5902.740	54.27	1.89	74.0	19.73	Peak	132.00	100	Horizontal	Pass
4**	5902.740	45.19	1.89	54.0	8.81	AV	132.00	100	Horizontal	Pass
5	11266.500	54.82	1.99	74.0	19.18	Peak	142.00	100	Horizontal	Pass
5**	11266.500	46.36	1.99	54.0	7.64	AV	142.00	100	Horizontal	Pass
6	13626.000	56.65	4.93	74.0	17.35	Peak	274.00	100	Horizontal	Pass
6**	13626.000	46.71	4.93	54.0	7.29	AV	274.00	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	☒
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	/		☒

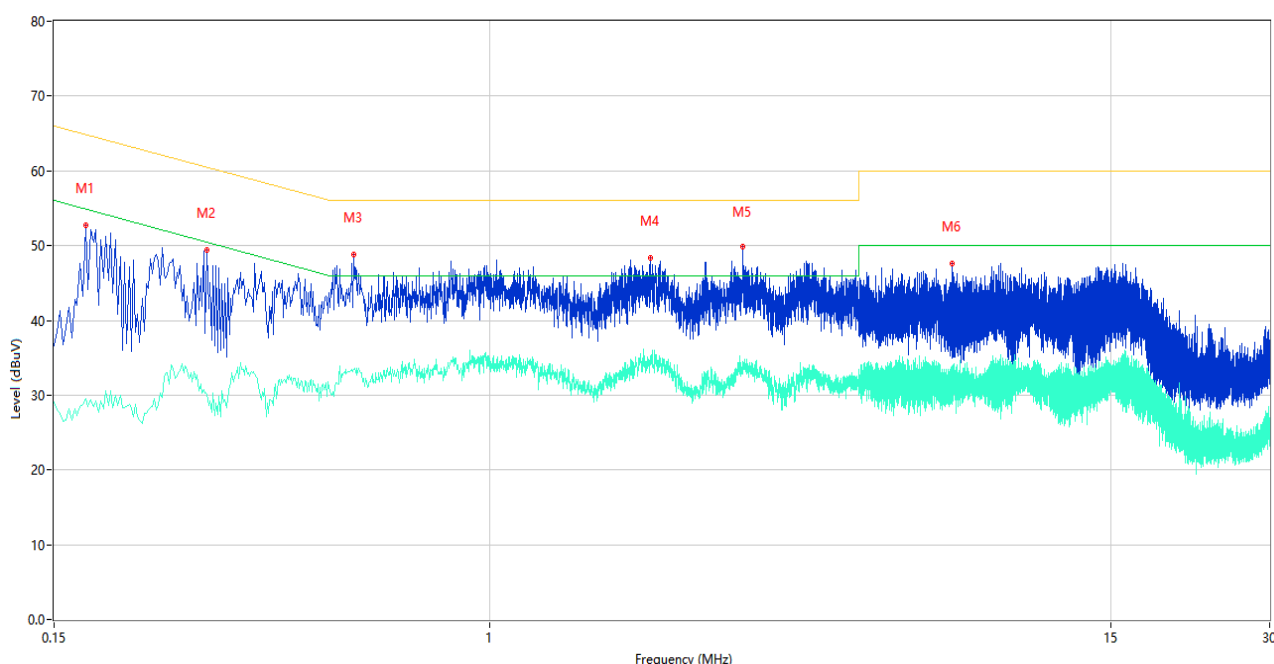
A.2 Conducted Emission, AC Ports

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.	S09	Temperature	20.3℃
Humidity	54%RH	Pressure	101kPa
Test Engineer	Yang Panxia	Test Date	2025.02.26

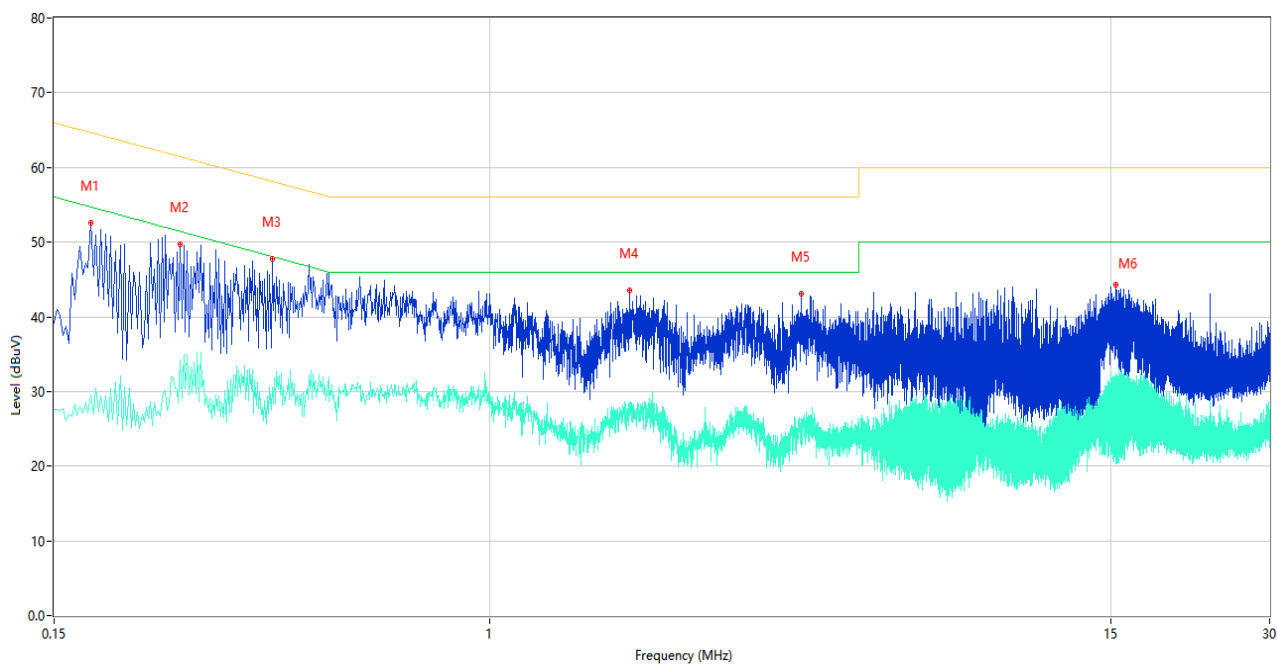
Test Mode 4

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.172	52.72	10.06	64.86	12.14	Peak	L	Pass
1**	0.172	29.51	10.06	54.86	25.35	AV	L	Pass
2	0.292	49.38	10.04	60.47	11.09	Peak	L	Pass
2**	0.292	30.19	10.04	50.47	20.28	AV	L	Pass
3	0.554	48.83	10.47	56.00	7.17	Peak	L	Pass
3**	0.554	33.43	10.47	46.00	12.57	AV	L	Pass
4	2.018	48.32	10.55	56.00	7.68	Peak	L	Pass
4**	2.018	35.22	10.55	46.00	10.78	AV	L	Pass
5	3.024	49.88	10.86	56.00	6.12	Peak	L	Pass
5**	3.024	32.91	10.86	46.00	13.09	AV	L	Pass
6	7.514	47.54	11.63	60.00	12.46	Peak	L	Pass
6**	7.514	33.68	11.63	50.00	16.32	AV	L	Pass

2) AC Ports - N Phase

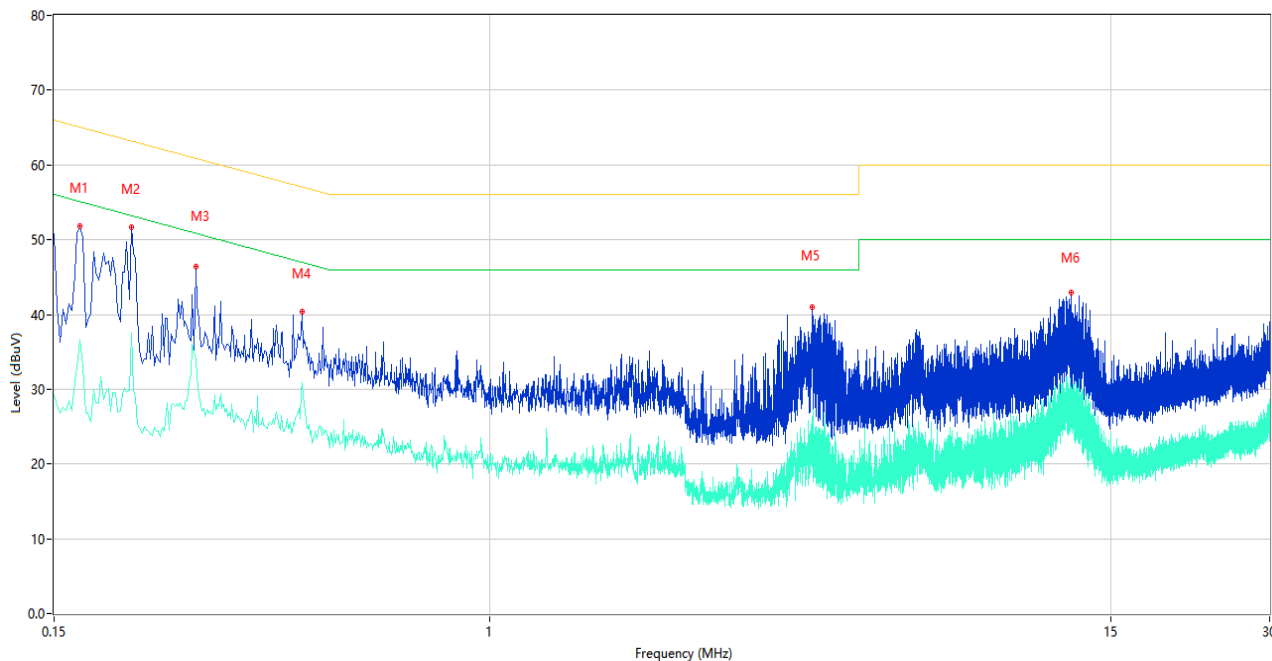


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.176	52.57	10.06	64.67	12.10	Peak	N	Pass
1**	0.176	29.57	10.06	54.67	25.10	AV	N	Pass
2	0.260	49.74	10.03	61.43	11.69	Peak	N	Pass
2**	0.260	34.17	10.03	51.43	17.26	AV	N	Pass
3	0.388	47.80	10.46	58.11	10.31	Peak	N	Pass
3**	0.388	30.59	10.46	48.11	17.52	AV	N	Pass
4	1.844	43.56	10.35	56.00	12.44	Peak	N	Pass
4**	1.844	26.82	10.35	46.00	19.18	AV	N	Pass
5	3.900	43.11	10.71	56.00	12.89	Peak	N	Pass
5**	3.900	24.34	10.71	46.00	21.66	AV	N	Pass
6	15.312	44.27	13.59	60.00	15.73	Peak	N	Pass
6**	15.312	31.33	13.59	50.00	18.67	AV	N	Pass

Sample No.	S09	Temperature	20.3℃
Humidity	54%RH	Pressure	101kPa
Test Engineer	Yang Panxia	Test Date	2025.02.26

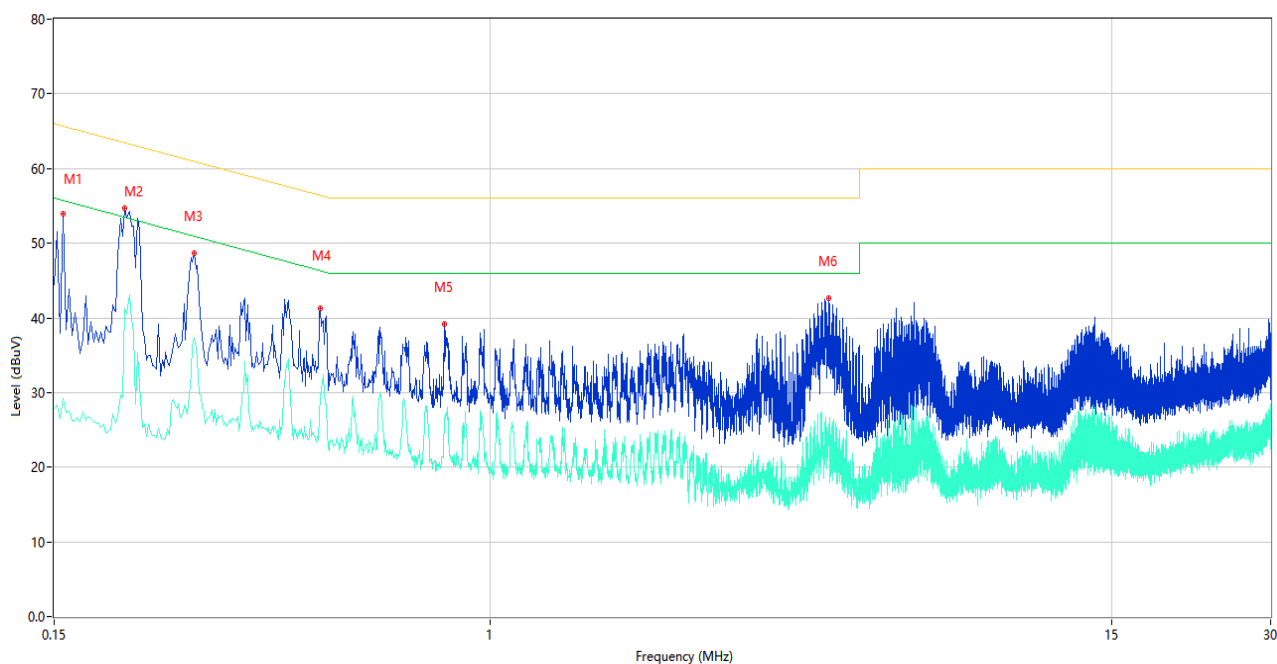
Test Mode 5

3) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.168	51.89	10.07	65.06	13.17	Peak	L	Pass
1**	0.168	36.66	10.07	55.06	18.40	AV	L	Pass
2	0.210	51.74	10.03	63.21	11.47	Peak	L	Pass
2**	0.210	37.57	10.03	53.21	15.64	AV	L	Pass
3	0.278	46.40	10.04	60.88	14.48	Peak	L	Pass
3**	0.278	34.00	10.04	50.88	16.88	AV	L	Pass
4	0.442	40.45	10.56	57.02	16.57	Peak	L	Pass
4**	0.442	30.85	10.56	47.02	16.17	AV	L	Pass
5	4.084	41.00	11.11	56.00	15.00	Peak	L	Pass
5**	4.084	25.79	11.11	46.00	20.21	AV	L	Pass
6	12.656	42.92	12.83	60.00	17.08	Peak	L	Pass
6**	12.656	30.28	12.83	50.00	19.72	AV	L	Pass

4) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.156	53.99	10.11	65.67	11.68	Peak	N	Pass
1**	0.156	29.18	10.11	55.67	26.49	AV	N	Pass
2	0.204	54.76	10.03	63.45	8.69	Peak	N	Pass
2**	0.204	41.22	10.03	53.45	12.23	AV	N	Pass
3	0.276	48.70	10.04	60.94	12.24	Peak	N	Pass
3**	0.276	37.33	10.04	50.94	13.61	AV	N	Pass
4	0.478	41.23	10.41	56.37	15.14	Peak	N	Pass
4**	0.478	29.41	10.41	46.37	16.96	AV	N	Pass
5	0.820	39.14	10.15	56.00	16.86	Peak	N	Pass
5**	0.820	26.61	10.15	46.00	19.39	AV	N	Pass
6	4.386	42.64	11.06	56.00	13.36	Peak	N	Pass
6**	4.386	25.28	11.06	46.00	20.72	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	2024.11.06	2025.11.05	☐
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	2025.02.18	2026.02.17	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2520680-AE.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2520680-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2520680-AI.PDF”.

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--END OF REPORT--