

TEST REPORT

Applicant: OnePlus Technology (Shenzhen) Co., Ltd.
Address: 18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China
Equipment Type: Wireless Earbuds
Model Name: E513A
Brand Name: ONEPLUS
FCC ID: 2ABZ2-E513AL
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Nov. 12, 2024
Test Date: Nov. 12, 2024 - Dec. 04, 2024
Date of Issue: Dec. 09, 2024

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 Content
<u>Rev. 01</u>	<u>Dec. 09, 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	OnePlus Technology (Shenzhen) Co., Ltd.
Address	18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China

2.2 Manufacturer Information

Manufacturer	OnePlus Technology (Shenzhen) Co., Ltd.
Address	18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Wireless Earbuds
Model Name Under Test	E513A
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V08
Software Version	V070
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment 1	Li-Polymer Battery 1(Earphone Cell)	
	Brand Name	N/A
	Model No.	112570B
	Serial No.	N/A
	Capacitance	Rated: 62mAh
	Rated Voltage	3.89V
	Limited Voltage	4.48V
	Manufacturer	Chongqing VDL Electronics Co., LTD.
Ancillary Equipment 2	Li-Polymer Battery 2(Charging Case Battery)	
	Brand Name	N/A
	Model No.	801830PF8-1
	Serial No.	N/A
	Capacitance	Rated: 530mAh
	Rated Voltage	3.89V
	Limited Voltage	4.48V
	Manufacturer	Chongqing VDL Electronics Co., LTD.
Ancillary Equipment 3	Charging Case	
	Model No.	E513A

Ancillary Equipment 4	Type-C Cable	
	Length (Approx.)	0.2 m

2.5 Technical Information

Network and Wireless connectivity	Bluetooth
Classification of equipment	Class B
The highest internal frequency of EUT	2480 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
Adapter	VIVO	V2323A	N/A	N/A	N/A	☒
Adapter	Huawei	HW-050450C00	N/A	N/A	N/A	☒

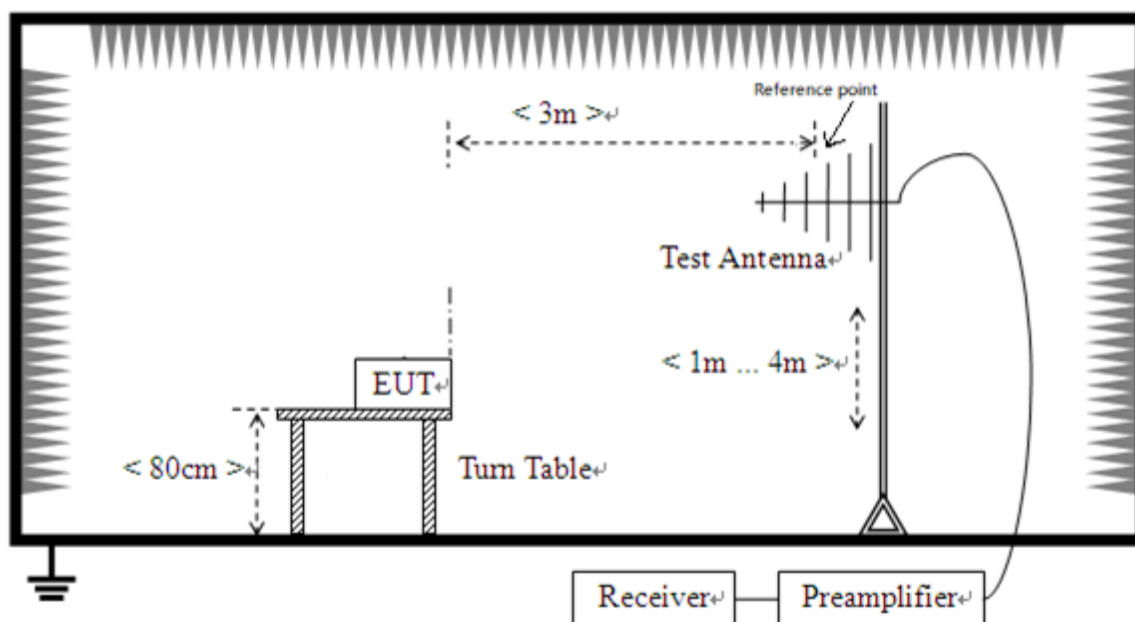
4.2 Test Configurations

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

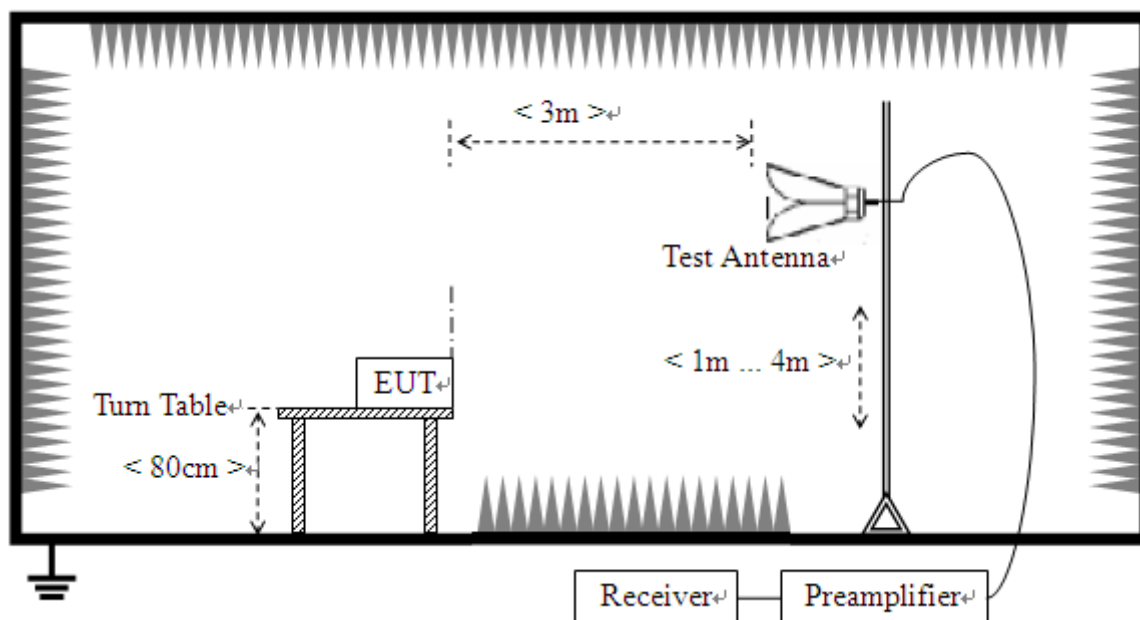
Test Mode Configuration	Description
Mode 1	<u>The Charging Test Mode</u> EUT + Adapter + USB Cable + Battery + Earphone Charging Case

4.3 Test Setups

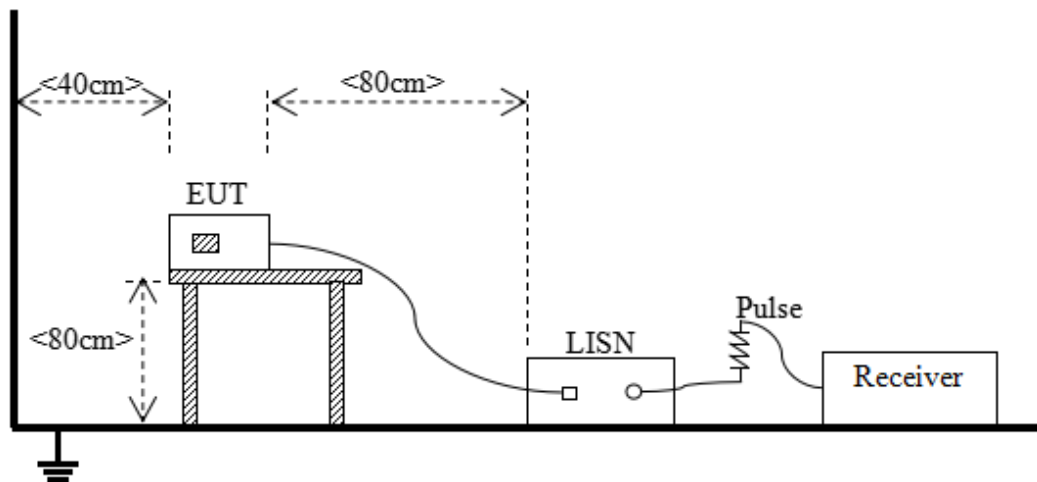
Test Setup 1



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

FCC:

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

The test employing the methods of measurement described in the publication referenced in ICES-003 Section 3(b) (ANSI C63.4) and ANSI C63.4;

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 (dBμV) = Reading (dBμV) + 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

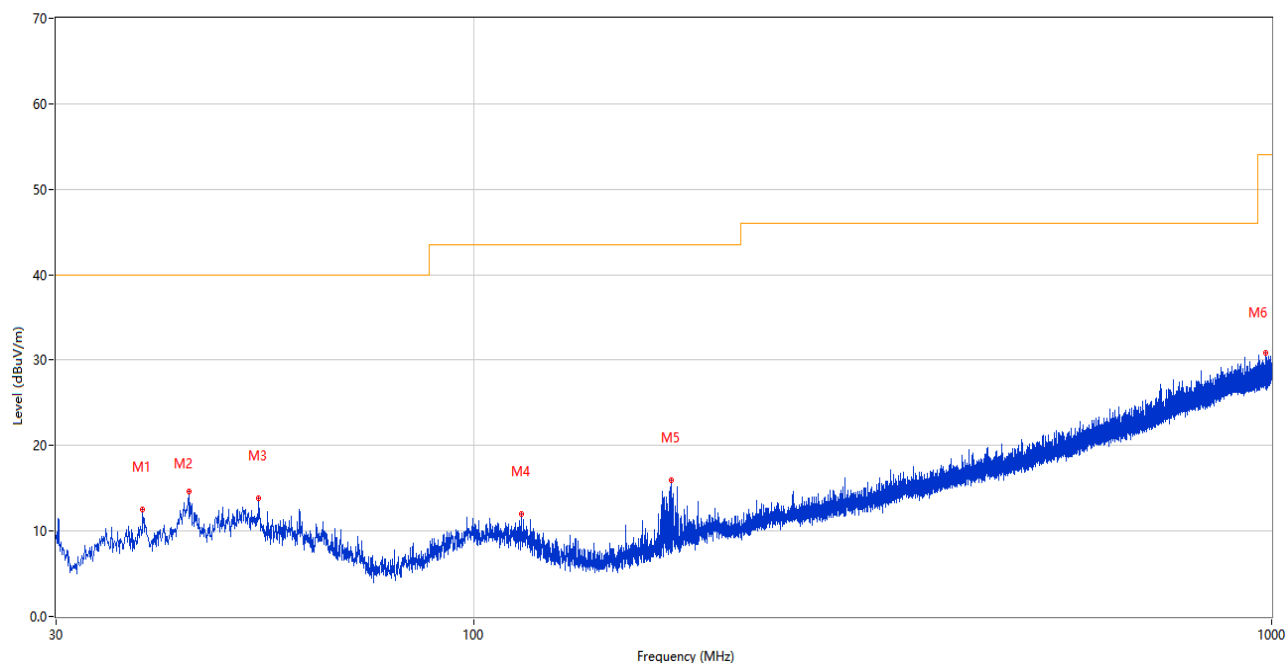
A.1 Radiated Emission

Note 1: 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.

Sample No.	S04	Temperature	24.8℃
Humidity	56%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2024.12.03

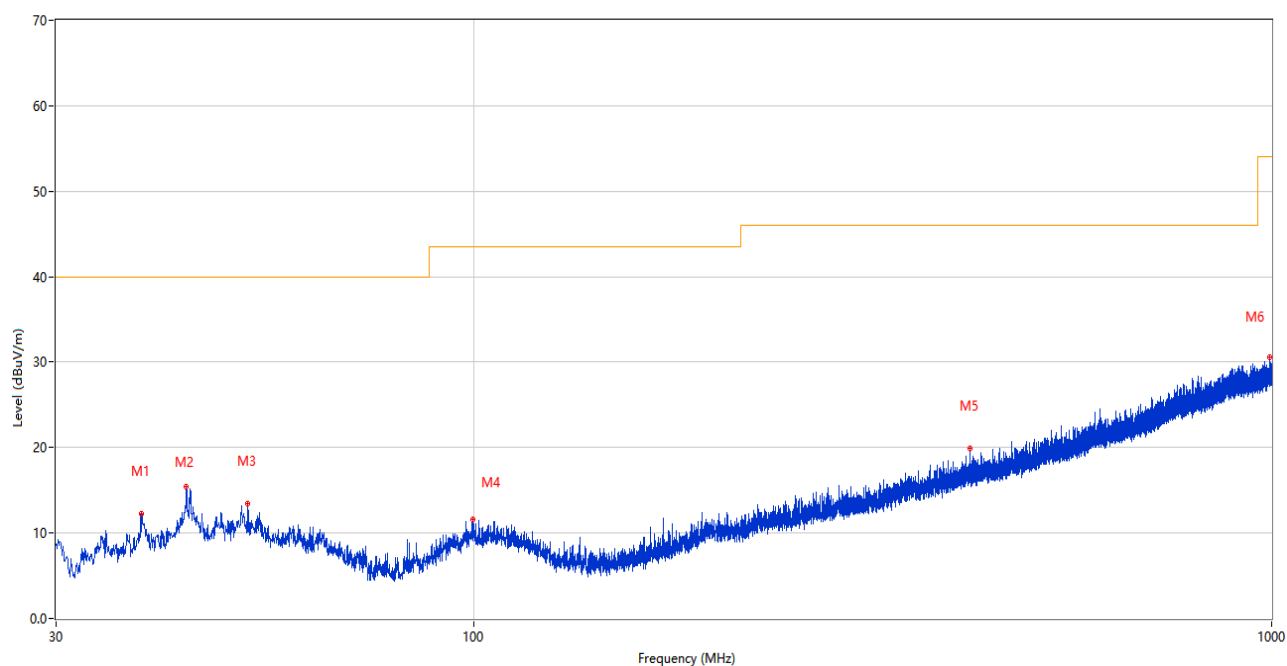
Test Mode 1

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	38.536	12.47	-25.71	40.0	27.53	Peak	345.00	100	Vertical	Pass
2	44.017	14.60	-25.66	40.0	25.40	Peak	303.00	200	Vertical	Pass
3	53.862	13.83	-25.07	40.0	26.17	Peak	174.00	100	Vertical	Pass
4	114.972	11.99	-27.66	43.5	31.51	Peak	261.00	200	Vertical	Pass
5	176.906	15.92	-28.55	43.5	27.58	Peak	188.00	100	Vertical	Pass
6	984.092	30.80	-8.61	54.0	23.20	Peak	156.00	200	Vertical	Pass

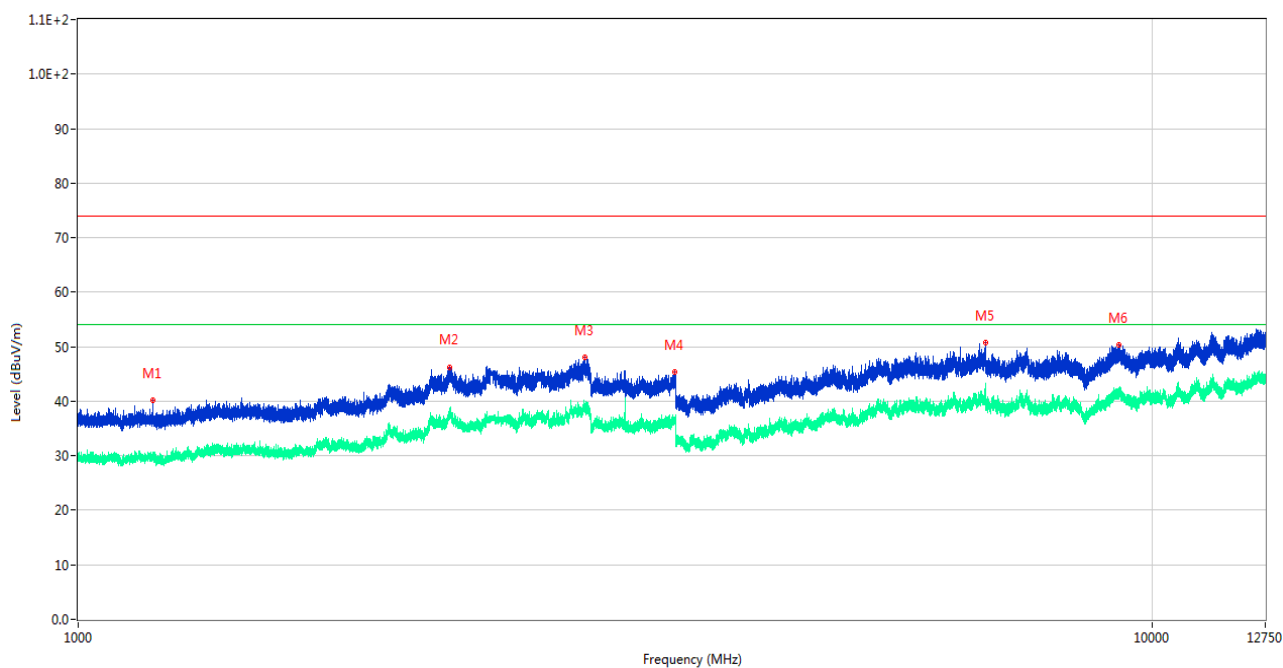
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	38.342	12.24	-26.34	40.0	27.76	Peak	16.00	100	Horizontal	Pass
2	43.677	15.36	-25.21	40.0	24.64	Peak	357.00	200	Horizontal	Pass
3	52.164	13.47	-24.93	40.0	26.53	Peak	286.00	200	Horizontal	Pass
4	99.888	11.62	-26.67	43.5	31.88	Peak	319.00	100	Horizontal	Pass
5	419.212	19.97	-20.40	46.0	26.03	Peak	43.00	200	Horizontal	Pass
6	995.635	30.55	-8.31	54.0	23.45	Peak	78.00	100	Horizontal	Pass

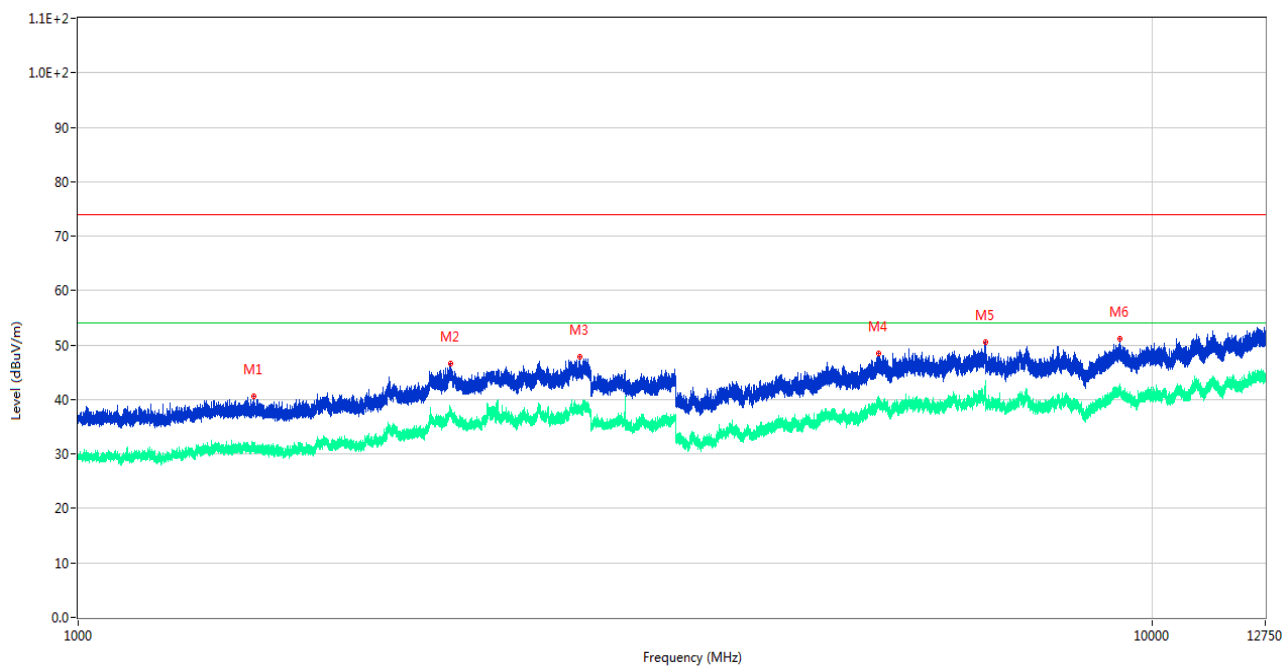
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2024.08.01	2025.07.31	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	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 – 12.75 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1174.800	40.17	-16.53	74.0	33.83	Peak	197.40	100	Vertical	Pass
1**	1174.800	30.16	-16.53	54.0	23.84	AV	197.40	100	Vertical	Pass
2	2218.700	46.30	-8.62	74.0	27.70	Peak	82.50	100	Vertical	Pass
2**	2218.700	37.35	-8.62	54.0	16.65	AV	82.50	100	Vertical	Pass
3	2961.600	48.03	-5.66	74.0	25.97	Peak	280.60	100	Vertical	Pass
3**	2961.600	39.48	-5.66	54.0	14.52	AV	280.60	100	Vertical	Pass
4	3590.200	45.28	-6.67	74.0	28.72	Peak	276.40	100	Vertical	Pass
4**	3590.200	36.53	-6.67	54.0	17.47	AV	276.40	100	Vertical	Pass
5	6993.600	50.67	0.23	74.0	23.33	Peak	171.40	100	Vertical	Pass
5**	6993.600	41.69	0.23	54.0	12.31	AV	171.40	100	Vertical	Pass
6	9310.925	50.30	20.15	74.0	23.70	Peak	190.90	100	Vertical	Pass
6**	9310.925	42.41	20.15	54.0	11.59	AV	190.90	100	Vertical	Pass

4) Test Antenna Horizontal, 1 GHz – 12.75 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1458.200	40.52	-15.31	74.0	33.48	Peak	32.30	100	Horizontal	Pass
1**	1458.200	31.31	-15.31	54.0	22.69	AV	32.30	100	Horizontal	Pass
2	2224.500	46.68	-8.64	74.0	27.32	Peak	278.10	100	Horizontal	Pass
2**	2224.500	37.60	-8.64	54.0	16.40	AV	278.10	100	Horizontal	Pass
3	2933.400	47.79	-7.09	74.0	26.21	Peak	264.20	100	Horizontal	Pass
3**	2933.400	38.05	-7.09	54.0	15.95	AV	264.20	100	Horizontal	Pass
4	5562.000	48.54	-1.77	74.0	25.46	Peak	261.50	100	Horizontal	Pass
4**	5562.000	39.79	-1.77	54.0	14.21	AV	261.50	100	Horizontal	Pass
5	6994.600	50.50	0.30	74.0	23.50	Peak	64.70	100	Horizontal	Pass
5**	6994.600	42.34	0.30	54.0	11.66	AV	64.70	100	Horizontal	Pass
6	9335.363	51.10	20.51	74.0	22.90	Peak	2.90	100	Horizontal	Pass
6**	9335.363	41.38	20.51	54.0	12.62	AV	2.90	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	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	2024.07.21	2027.07.20	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

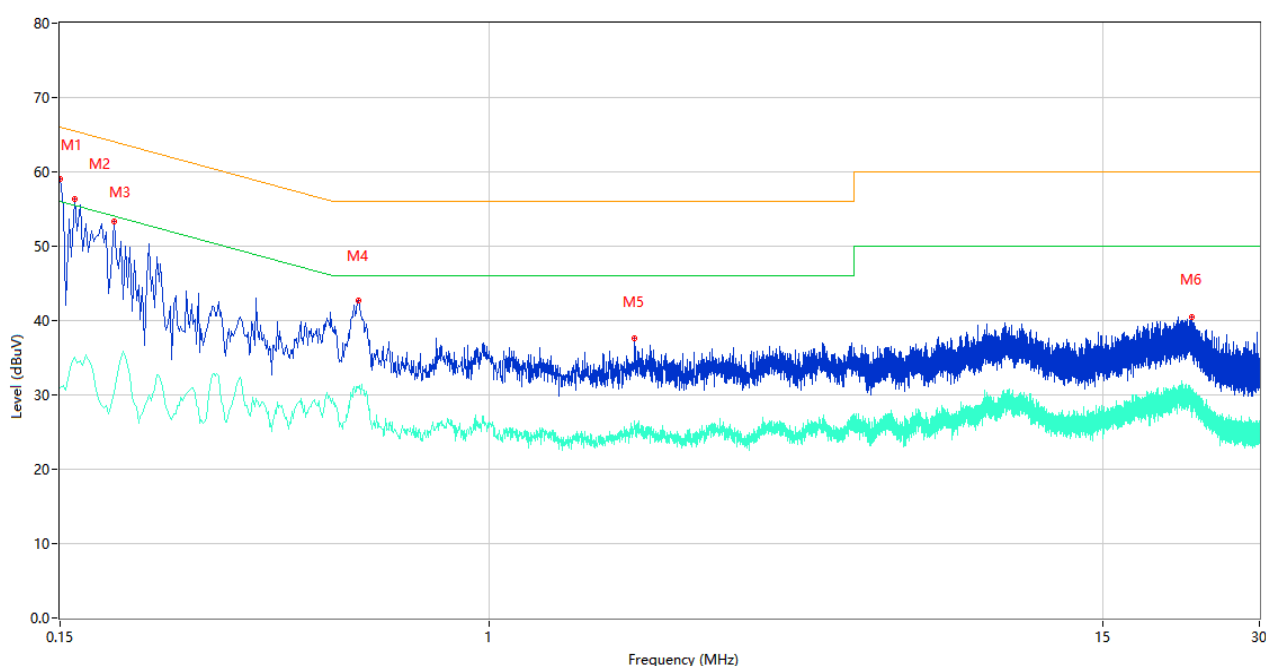
A.2 Conducted Emission, AC Ports

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.	S04	Temperature	22.6℃
Humidity	57%RH	Pressure	101kPa
Test Engineer	Zeng Xiaoying	Test Date	2024.12.03

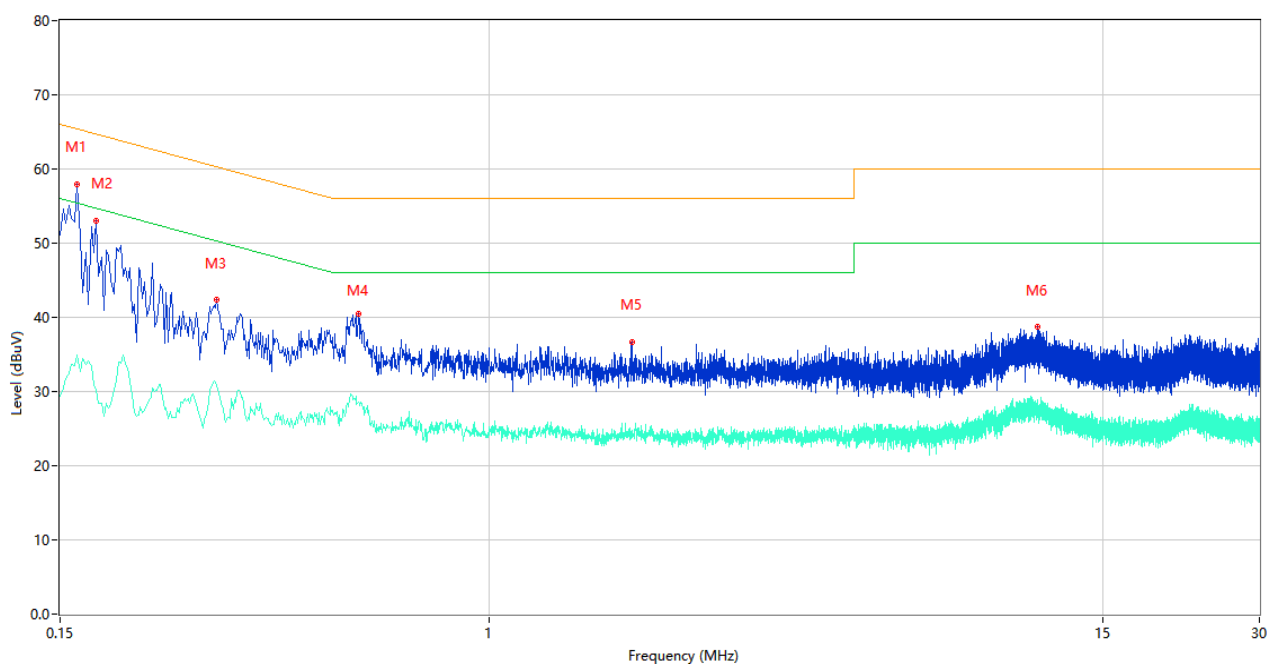
Test Mode 1

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.150	59.12	9.78	66.00	6.88	Peak	L	Pass
1**	0.150	30.90	9.78	56.00	25.10	AV	L	Pass
2	0.160	56.34	9.78	65.46	9.12	Peak	L	Pass
2**	0.160	35.10	9.78	55.46	20.36	AV	L	Pass
3	0.190	53.39	9.78	64.04	10.65	Peak	L	Pass
3**	0.190	30.34	9.78	54.04	23.70	AV	L	Pass
4	0.560	42.70	10.06	56.00	13.30	Peak	L	Pass
4**	0.560	31.13	10.06	46.00	14.87	AV	L	Pass
5	1.896	37.61	10.73	56.00	18.39	Peak	L	Pass
5**	1.896	25.85	10.73	46.00	20.15	AV	L	Pass
6	22.262	40.52	10.97	60.00	19.48	Peak	L	Pass
6**	22.262	29.37	10.97	50.00	20.63	AV	L	Pass

2) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.162	58.01	9.78	65.36	7.35	Peak	N	Pass
1**	0.162	34.87	9.78	55.36	20.49	AV	N	Pass
2	0.176	53.07	9.78	64.67	11.60	Peak	N	Pass
2**	0.176	30.11	9.78	54.67	24.56	AV	N	Pass
3	0.300	42.37	9.76	60.24	17.87	Peak	N	Pass
3**	0.300	30.72	9.76	50.24	19.52	AV	N	Pass
4	0.560	40.42	10.06	56.00	15.58	Peak	N	Pass
4**	0.560	28.51	10.06	46.00	17.49	AV	N	Pass
5	1.880	36.72	10.52	56.00	19.28	Peak	N	Pass
5**	1.880	24.84	10.52	46.00	21.16	AV	N	Pass
6	11.258	38.69	10.60	60.00	21.31	Peak	N	Pass
6**	11.258	27.01	10.60	50.00	22.99	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	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-SZ24A0117-AE-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ24A0117-AW-2.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ24A0117-AI-2.PDF”.

Statement

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