

TEST REPORT

Applicant: Beijing ZenVue Technology Co., Ltd.
Address: Room 605-5D, Building 6, Yard 10, Kegou 1st Street,
BDA, Beijing
Equipment Type: Halliday G2
Model Name: Halliday G2
Brand Name: Halliday
FCC ID: 2BWO7-G2
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Jun. 03, 2026
Test Date: Jun. 04, 2026 - Jun. 24, 2026
Date of Issue: Jul. 24, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Gu Shuaizhen**Checked by:** Zong Liyao**Approved by:** Liao Jianming
(Technical Director)Gu shuai zhen.Zong LiyaoJim Liao

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Jul. 24, 2026</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	601, Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen, Guangdong
	☒ 1/F., Building B, Ganghongji High-Tech Intelligent Industrial Park, No.1008, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196. The certification body is American Association for Laboratory Accreditation (A2LA).

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Beijing ZenVue Technology Co., Ltd.
Address	Room 605-5D, Building 6, Yard 10, Kegou 1st Street, BDA, Beijing

2.2 Manufacturer Information

Manufacturer	Beijing ZenVue Technology Co., Ltd.
Address	Room 605-5D, Building 6, Yard 10, Kegou 1st Street, BDA, Beijing

2.3 General Description for Equipment under Test (EUT)

EUT Name	Halliday G2
Model Name Under Test	Halliday G2
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V2
Software Version	0.12.1
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment 1	Li-Polymer Battery	
	Brand Name	N/A
	Model No.	401045
	Serial No.	N/A
	Capacitance	210mAh
	Rated Voltage	3.92 V
	Limited Voltage	4.5 V
	Manufacturer	Yuwei Energy Technology (HuangShan) Co.,Ltd.
Ancillary Equipment 2	Type-C cable	
	Model No.	N/A
	Length (Approx.)	1.0 m
Ancillary Equipment 3	Charging Cable	
	Model No.	N/A
	Length (Approx.)	0.3 m

2.5 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11b, 802.11g, 802.11n(HT20), 802.11ac(VHT20), 802.11ax(HE20)
Classification of equipment	Class B
The highest internal frequency of EUT	2480MHz

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-150 KHz)-AMN	3.36 dB
Conducted emissions (150 kHz-30 MHz)-AMN	2.92 dB
Radiated emissions (30 MHz-1 GHz)	4.24 dB
Radiated emissions (1 GHz-6 GHz)	5.10 dB
Radiated emissions (6 GHz-18 GHz)	5.30 dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Enclosure List

Description	Manufacturer	Model	Serial No.	Length	Description	Use
Power adapter	N/A	Aohai	N/A	N/A	N/A	☒
Phone	HONOR	V20	N/A	N/A	N/A	☒

4.2 Test Configurations

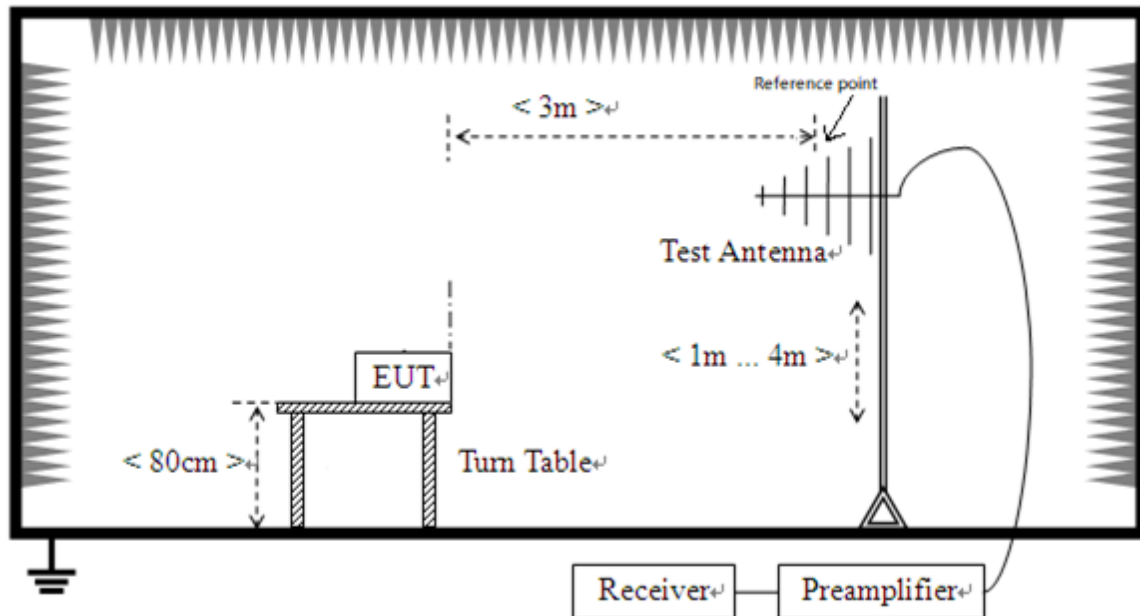
All test modes of EUT are listed in the table below.

Test Mode Configuration	Description
Mode 1	<u>The Charging Test Mode</u> EUT + Adapter + USB Cable
Mode 2	<u>The BT Test Mode</u> EUT + Adapter + BT Play Music + USB Cable
Mode 3	<u>The Only EUT Test Mode</u> EUT

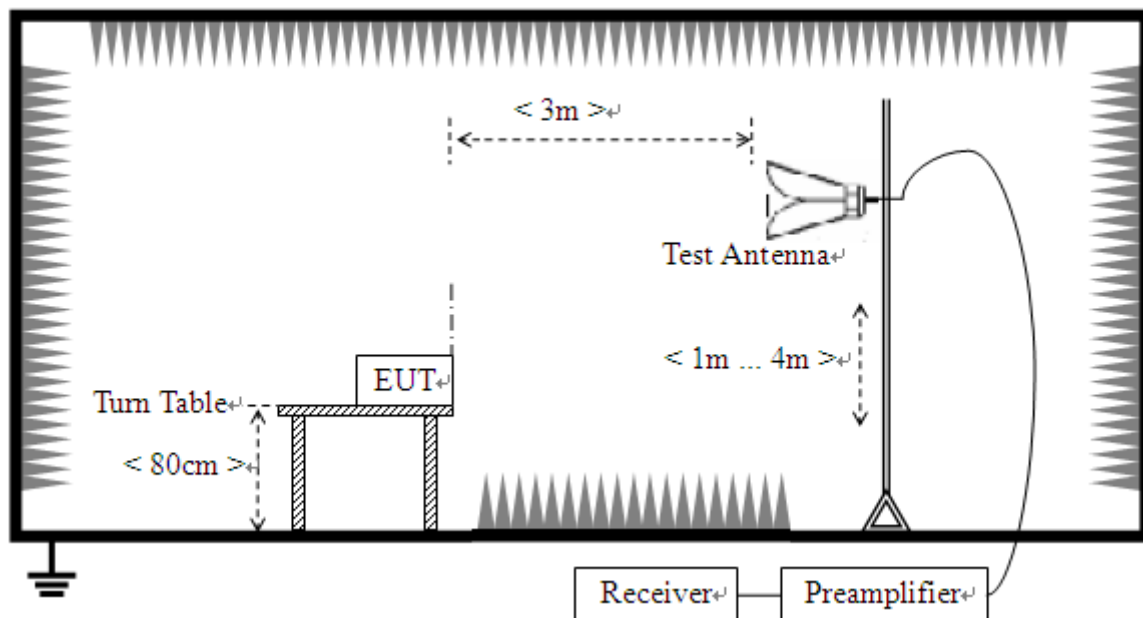
Test Case	Test Mode Configuration	Worst Mode
Radiated Emission	Mode 1~Mode 3	2
Conducted Emission, AC Ports	Mode 1~Mode 2	2
Note: All operation modes were tested, but only test data of the worst mode was presented in this report.		

4.3 Test Setups

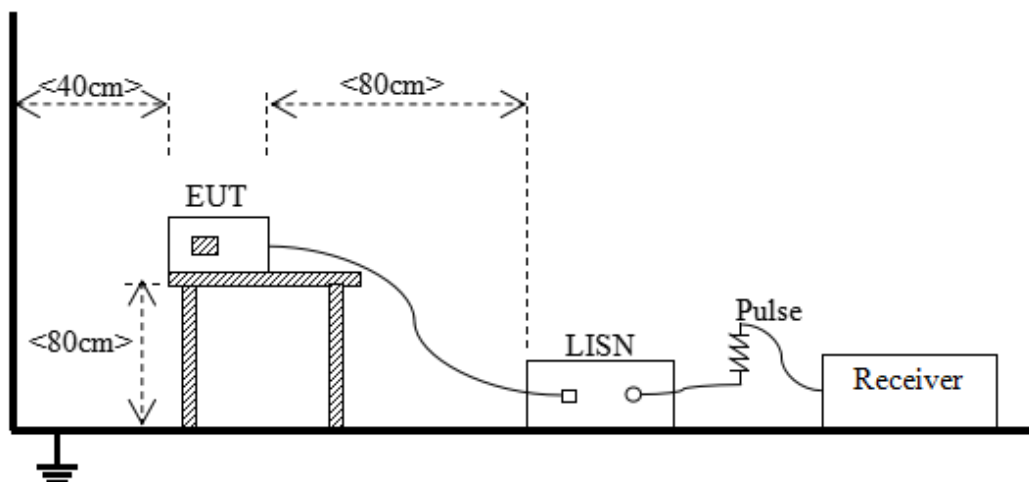
Test Setup 1



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 (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

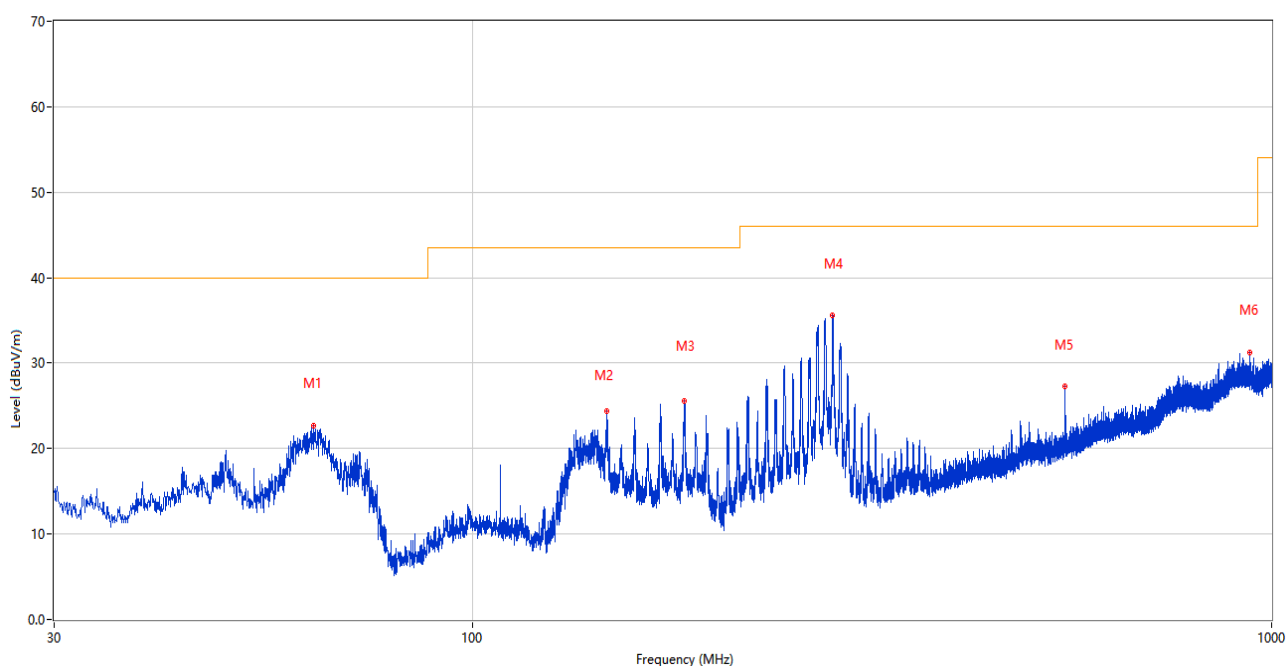
Note 1: The symbol of "--" in the table which means not application.

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.

Sample No.	S13	Temperature	22.6℃
Humidity	55%RH	Pressure	100.1kPa
Test Engineer	Zhong Pingqi	Test Date	2026.06.10

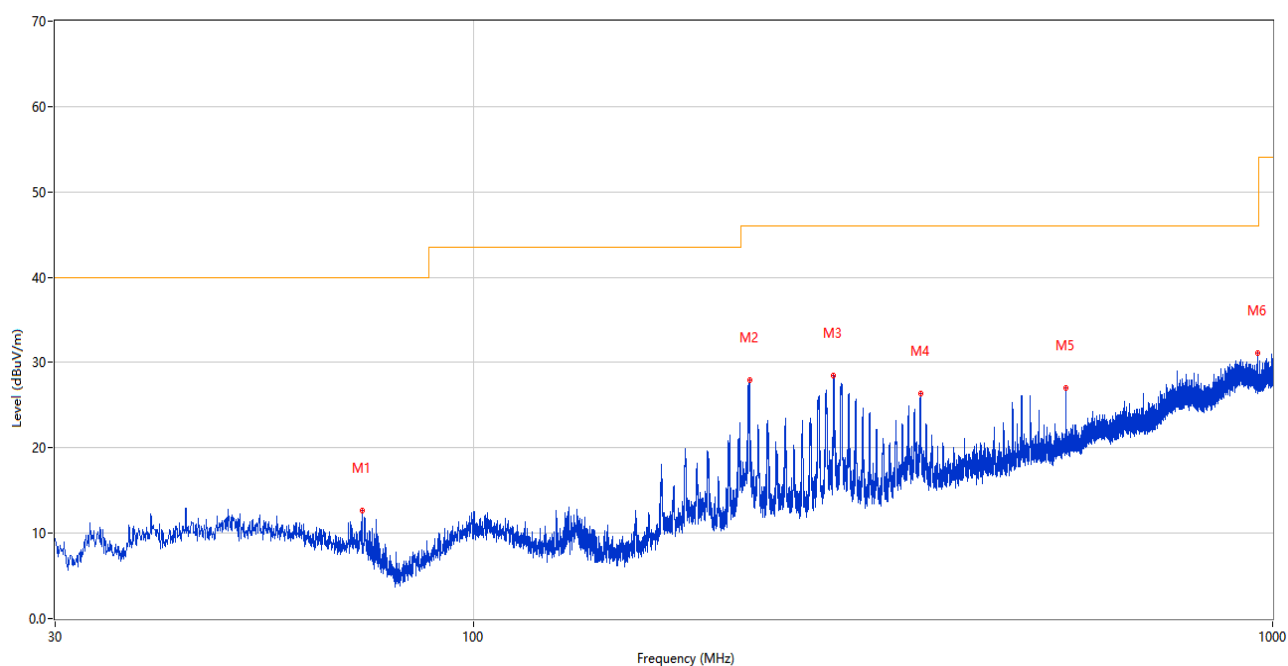
Test Mode 2

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	63.368	22.63	-26.84	40.0	17.37	Peak	105.00	100	Vertical	Pass
2	147.516	24.44	-29.78	43.5	19.06	Peak	135.00	100	Vertical	Pass
3	184.424	25.64	-27.29	43.5	17.86	Peak	251.00	100	Vertical	Pass
4	282.346	35.61	-23.70	46.0	10.39	Peak	219.00	100	Vertical	Pass
5	552.054	27.23	-16.91	46.0	18.77	Peak	333.00	100	Vertical	Pass
6	939.617	31.24	-8.66	46.0	14.76	Peak	200.00	200	Vertical	Pass

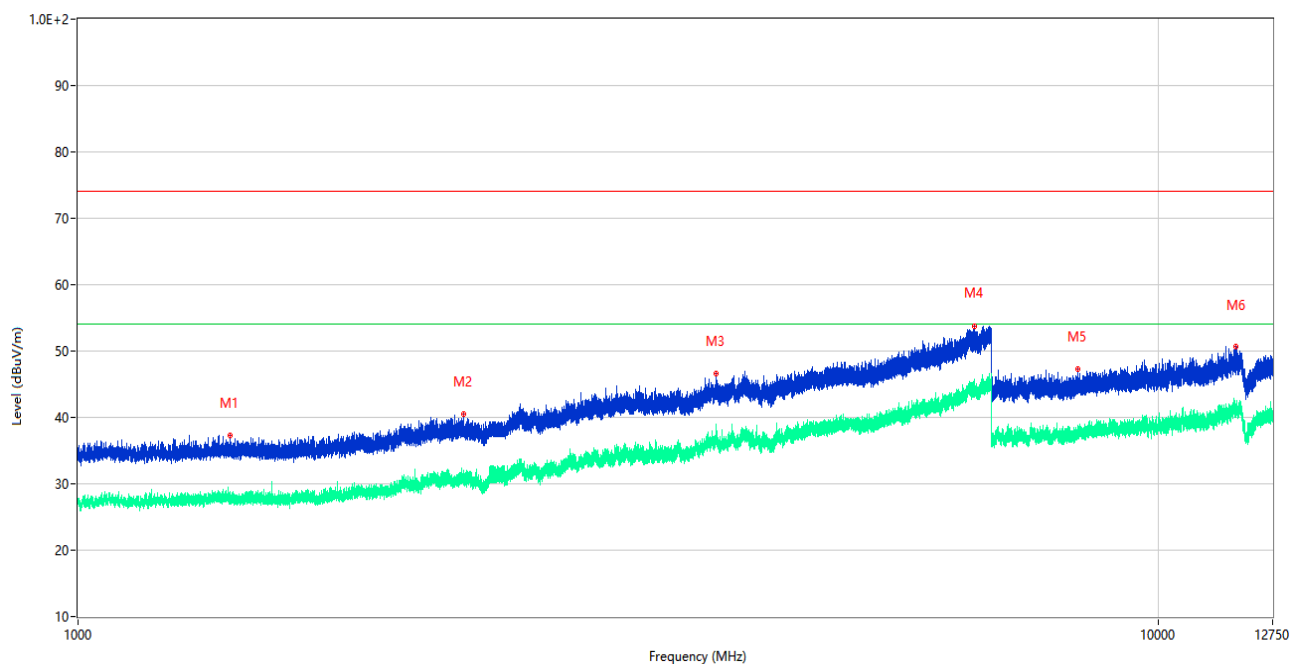
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	72.583	12.60	-29.76	40.0	27.40	Peak	7.00	200	Horizontal	Pass
2	221.575	27.92	-25.74	46.0	18.08	Peak	280.00	100	Horizontal	Pass
3	282.346	28.46	-23.70	46.0	17.54	Peak	301.00	100	Horizontal	Pass
4	362.759	26.36	-21.91	46.0	19.64	Peak	353.00	100	Horizontal	Pass
5	552.006	26.98	-16.91	46.0	19.02	Peak	263.00	200	Horizontal	Pass
6	956.738	31.11	-9.13	46.0	14.89	Peak	277.00	100	Horizontal	Pass

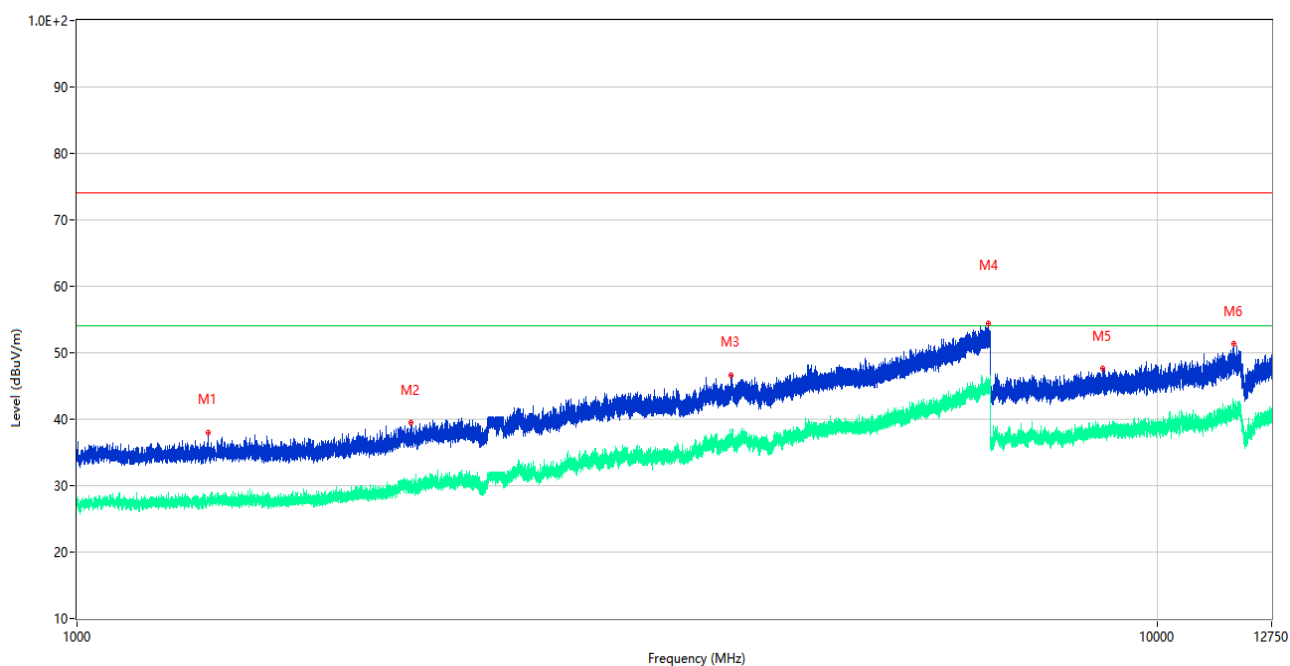
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330121	2025.12.26	2026.12.25	☒
Test Antenna-Bi-Log	SCHWARZB ECK	VULB 9163	01414	2023.11.03	2026.11.02	☒
Anechoic Chamber	EMC Electronic Co., Ltd	C8-966	107	2024.05.12	2027.05.11	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.4 en	/		☒

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	1381.810	37.29	-17.75	74.0	36.71	Peak	287.00	100	Vertical	Pass
1**	1381.810	27.55	-17.75	54.0	26.45	AV	287.00	100	Vertical	Pass
2	2275.430	40.55	-14.54	74.0	33.45	Peak	251.00	100	Vertical	Pass
2**	2275.430	30.79	-14.54	54.0	23.21	AV	251.00	100	Vertical	Pass
3	3894.270	46.60	-5.74	74.0	27.40	Peak	201.00	100	Vertical	Pass
3**	3894.270	36.77	-5.74	54.0	17.23	AV	201.00	100	Vertical	Pass
4	6752.480	53.79	0.17	74.0	20.21	Peak	34.00	100	Vertical	Pass
4**	6752.480	43.78	0.17	54.0	10.22	AV	34.00	100	Vertical	Pass
5	8409.901	47.25	-0.75	74.0	26.75	Peak	55.00	100	Vertical	Pass
5**	8409.901	36.79	-0.75	54.0	17.21	AV	55.00	100	Vertical	Pass
6	11801.250	50.76	4.74	74.0	23.24	Peak	240.00	100	Vertical	Pass
6**	11801.250	40.71	4.74	54.0	13.29	AV	240.00	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	1322.270	37.98	-17.85	74.0	36.02	Peak	268.00	100	Horizontal	Pass
1**	1322.270	27.62	-17.85	54.0	26.38	AV	268.00	100	Horizontal	Pass
2	2037.660	39.44	-15.77	74.0	34.56	Peak	140.00	100	Horizontal	Pass
2**	2037.660	29.66	-15.77	54.0	24.34	AV	140.00	100	Horizontal	Pass
3	4028.570	46.65	-5.94	74.0	27.35	Peak	222.00	100	Horizontal	Pass
3**	4028.570	35.90	-5.94	54.0	18.10	AV	222.00	100	Horizontal	Pass
4	6970.250	54.42	0.59	74.0	19.58	Peak	360.00	100	Horizontal	Pass
4**	6970.250	44.69	0.59	54.0	9.31	AV	360.00	100	Horizontal	Pass
5	8887.151	47.59	-0.21	74.0	26.41	Peak	269.00	100	Horizontal	Pass
5**	8887.151	38.17	-0.21	54.0	15.83	AV	269.00	100	Horizontal	Pass
6	11755.537	51.33	5.66	74.0	22.67	Peak	91.00	100	Horizontal	Pass
6**	11755.537	41.95	5.66	54.0	12.05	AV	91.00	100	Horizontal	Pass

Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Above 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330121	2025.12.26	2026.12.25	☒
Test Antenna-Horn	SCHWARZB ECK	BBHA 9120D	02459	2023.10.26	2026.10.25	☒
Anechoic Chamber	EMC Electronic Co., Ltd	C8-966	107	2024.05.12	2027.05.11	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.4 en	/		☒

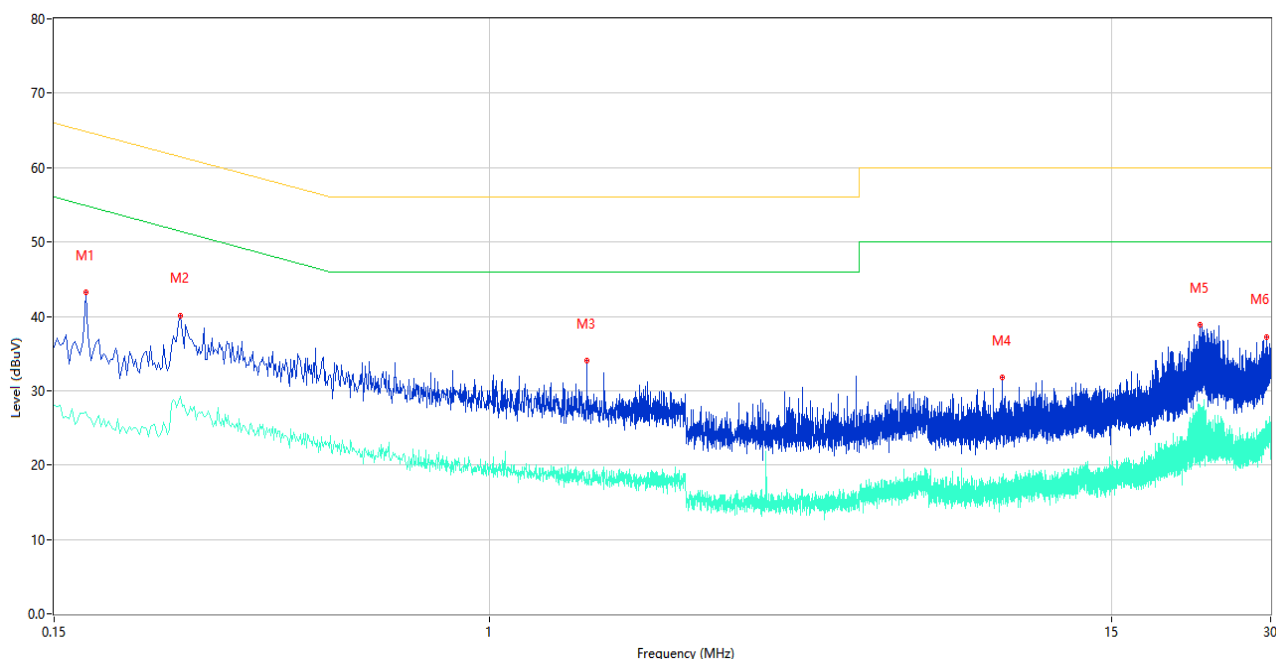
A.2 Conducted Emission, AC Ports

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.	S13	Temperature	22.6℃
Humidity	55%RH	Pressure	100.1kPa
Test Engineer	Ye Xuanwei	Test Date	2026.06.11

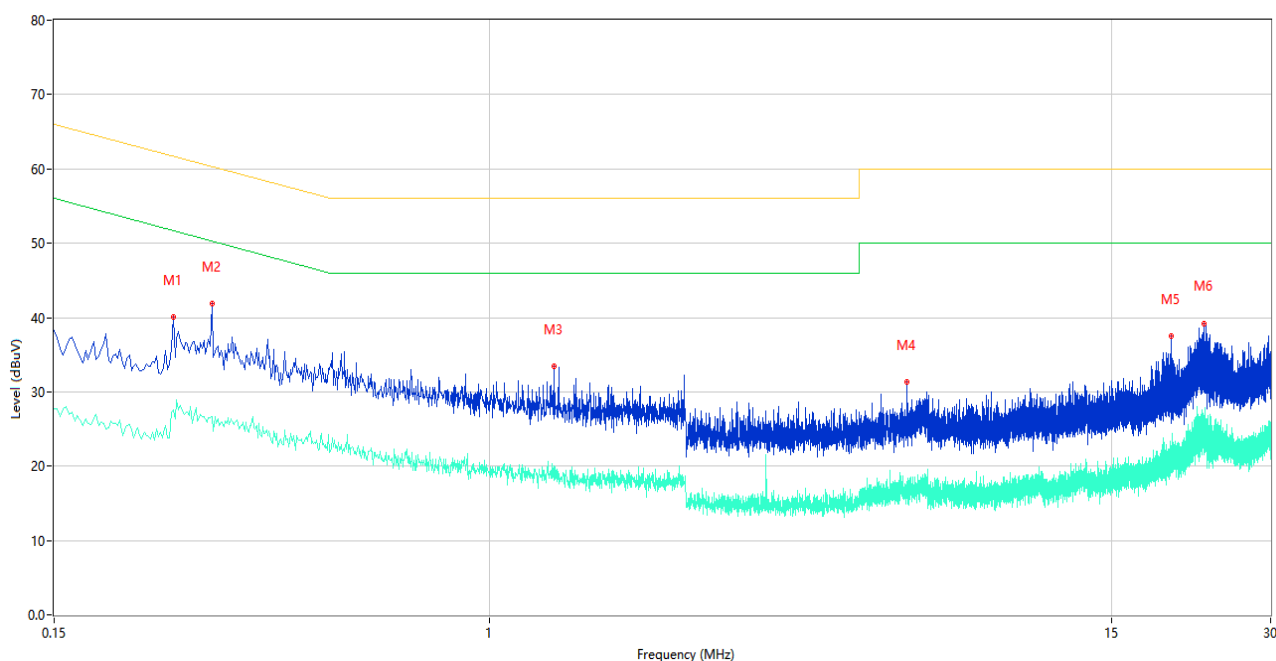
Test Mode 2

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.172	43.23	10.26	64.86	21.63	Peak	L	Pass
1**	0.172	27.10	10.26	54.86	27.76	AV	L	Pass
2	0.260	40.15	10.24	61.43	21.28	Peak	L	Pass
2**	0.260	29.20	10.24	51.43	22.23	AV	L	Pass
3	1.526	34.09	10.35	56.00	21.91	Peak	L	Pass
3**	1.526	18.94	10.35	46.00	27.06	AV	L	Pass
4	9.310	31.74	11.62	60.00	28.26	Peak	L	Pass
4**	9.310	18.35	11.62	50.00	31.65	AV	L	Pass
5	22.044	38.86	14.71	60.00	21.14	Peak	L	Pass
5**	22.044	20.72	14.71	50.00	29.28	AV	L	Pass
6	29.436	37.28	16.20	60.00	22.72	Peak	L	Pass
6**	29.436	23.55	16.20	50.00	26.45	AV	L	Pass

2) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.252	40.01	10.16	61.69	21.68	Peak	N	Pass
1**	0.252	27.64	10.16	51.69	24.05	AV	N	Pass
2	0.298	41.85	10.16	60.30	18.45	Peak	N	Pass
2**	0.298	26.68	10.16	50.30	23.62	AV	N	Pass
3	1.324	33.51	10.24	56.00	22.49	Peak	N	Pass
3**	1.324	20.11	10.24	46.00	25.89	AV	N	Pass
4	6.166	31.37	10.89	60.00	28.63	Peak	N	Pass
4**	6.166	17.94	10.89	50.00	32.06	AV	N	Pass
5	19.458	37.56	14.20	60.00	22.44	Peak	N	Pass
5**	19.458	22.73	14.20	50.00	27.27	AV	N	Pass
6	22.404	39.22	14.83	60.00	20.78	Peak	N	Pass
6**	22.404	26.17	14.83	50.00	23.83	AV	N	Pass

Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038B	MY61380132	2025.12.26	2026.12.25	☒
LISN	SCHWARZBECK	NSLK 8127	01009	2025.07.15	2026.07.14	☒
Shielded Room	YiHeng Electronic Co., Ltd	/	235	2024.11.05	2027.11.04	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.4 en	/		☒

ANNEX B TEST SETUP PHOTOS

Please refer the document “Ti-CC26050015-AE-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “Ti-CC26050015-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “Ti-CC26050015-AI.PDF”.

Statement

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

--END OF REPORT--