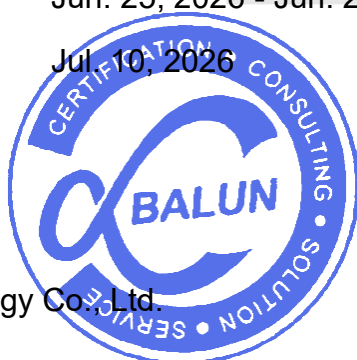


TEST REPORT

Applicant: Ningbo Zlink Technology Co., Ltd.
Address: No.1, Song Cui Road, Dongqian Lake Tourism Resort, Ningbo, Zhejiang, China
Equipment Type: ultrasonic water meter
Model Name: LXC (refer to section 2.3)
Brand Name: ZLINK
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Jun. 17, 2026
Test Date: Jun. 25, 2026 - Jun. 26, 2026
Date of Issue: Jul. 10, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Li JunFeng**Checked by:** Zong Liyao**Approved by:** Liao Jianming
(Technical Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Jul. 10, 2026</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION.....	3
1.1	Test Laboratory	3
1.2	Test Location	3
2	PRODUCT INFORMATION	4
2.1	Applicant Information	4
2.2	Manufacturer Information.....	4
2.3	General Description for Equipment under Test (EUT).....	4
2.4	Ancillary Equipment.....	4
2.5	Technical Information	4
3	SUMMARY OF TEST RESULTS	5
3.1	Test Standards	5
3.2	Verdict.....	5
3.3	Test Uncertainty	5
4	GENERAL TEST CONFIGURATIONS	6
4.1	Test Enclosure List.....	6
4.2	Test Configurations	6
4.3	Test Setups	7
5	TEST ITEMS	9
5.1	Emission Tests	9
ANNEX A	TEST RESULTS.....	14
A.1	Radiated Emission.....	14
A.2	Conducted Emission, AC Ports.....	21
ANNEX B	TEST SETUP PHOTOS	22
ANNEX C	EUT EXTERNAL PHOTOS.....	22
ANNEX D	EUT INTERNAL PHOTOS.....	22

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	Ningbo Zlink Technology Co., Ltd.
Address	No.1, Song Cui Road, Dongqian Lake Tourism Resort, Ningbo, Zhejiang, China

2.2 Manufacturer Information

Manufacturer	Ningbo Zlink Technology Co., Ltd.
Address	No.1, Song Cui Road, Dongqian Lake Tourism Resort, Ningbo, Zhejiang, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	ultrasonic water meter
Model Name Under Test	LXC
Series Model Name	LXC-DN15, LXC-DN20, LXC-DN25
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, The only differences are the diameter and length of the connecting pipes, which are all made of plastic tubing. All other components remain the same. (this information provided by the applicant)
Hardware Version	PHXW211.R112-0V01-F-BC660-20250929
Software Version	4.37.03.04.46
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment	Battery	
	Brand Name	N/A
	Model No.	ER34615C
	Serial No.	N/A
	Capacity	19000mAh
	Rated Voltage	3.6V
	Limit Charge Voltage	3.95V

2.5 Technical Information

Network and Wireless connectivity	NB-IOT B2
Classification of equipment	Class B

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	N/A	--
Note: The EUT has no AC Port, so this test item is not applicable.				

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
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

Note: Not applicable.

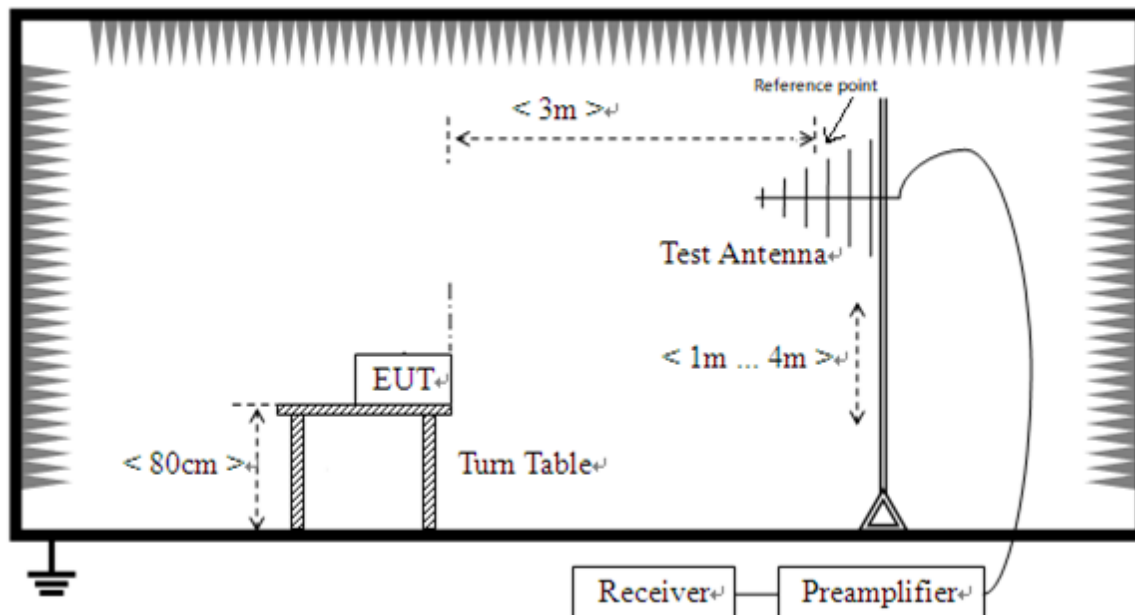
4.2 Test Configurations

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

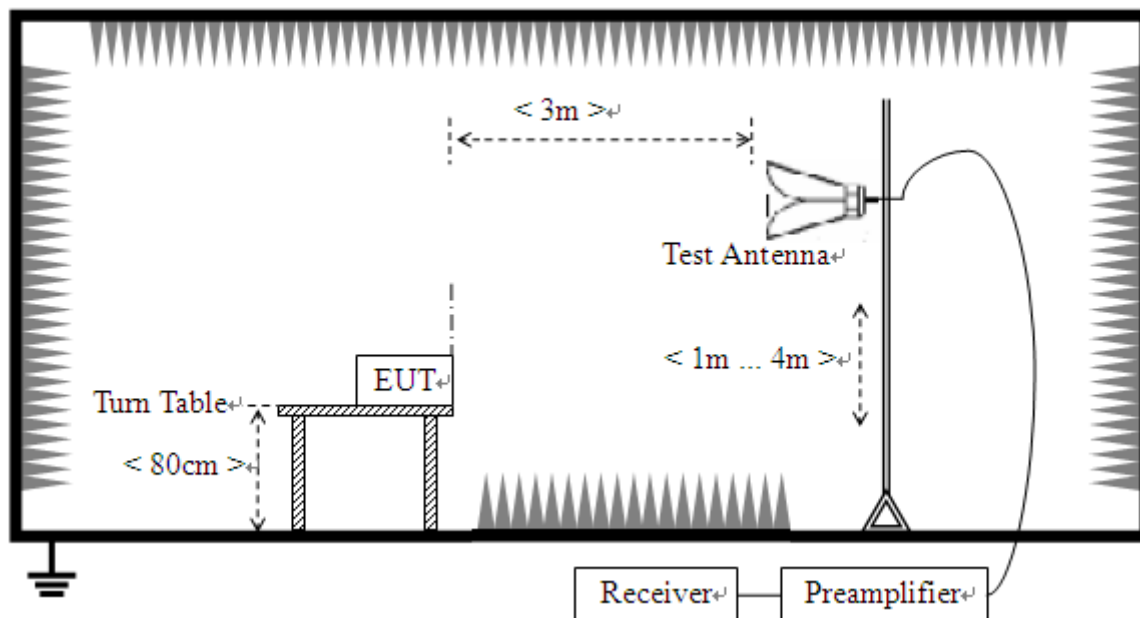
Test Mode Configuration	Description
Mode 1	<u>The Working Test Mode</u> EUT + Battery

4.3 Test Setups

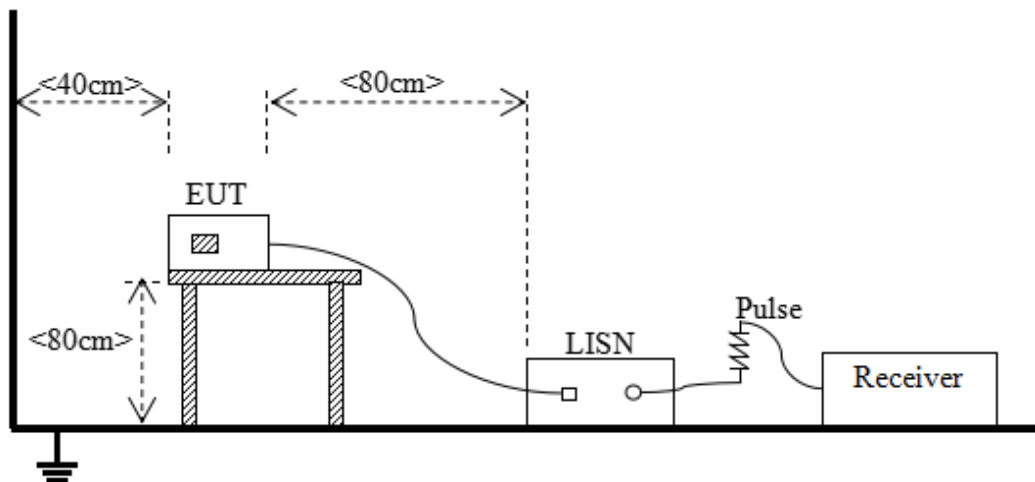
Test Setup 1



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.

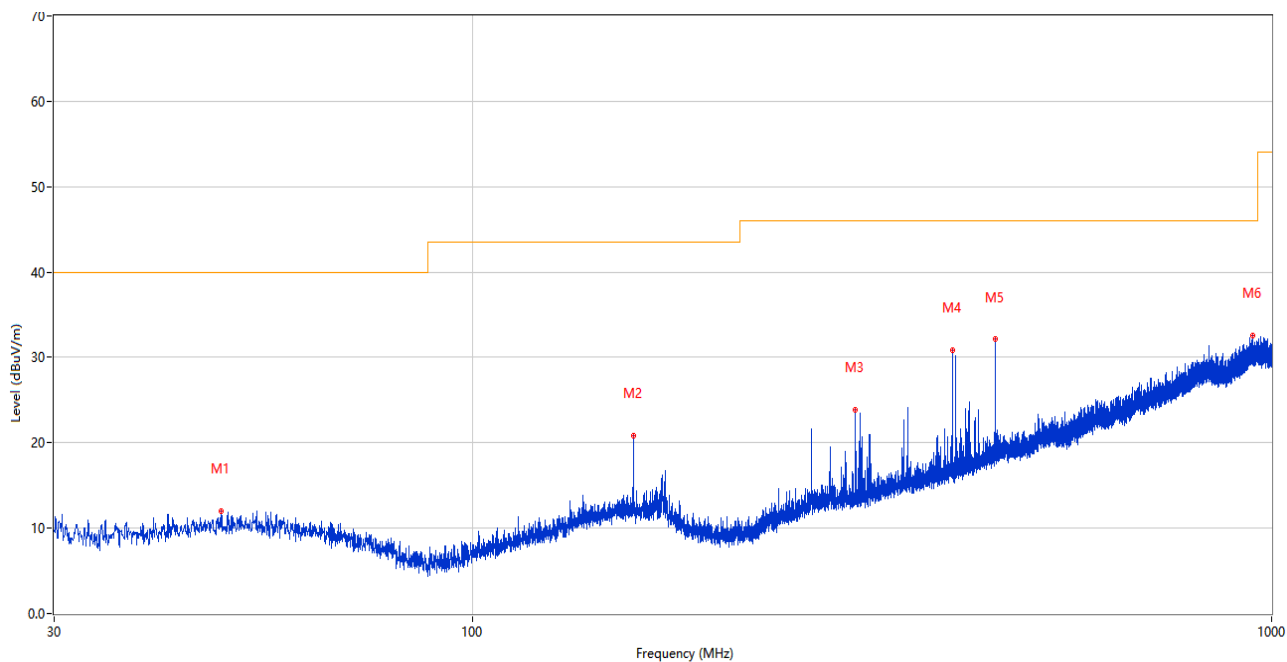
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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.	S04	Temperature	21.4℃
Humidity	60%RH	Pressure	99.8kPa
Test Engineer	Wu Yunan	Test Date	2026.06.26

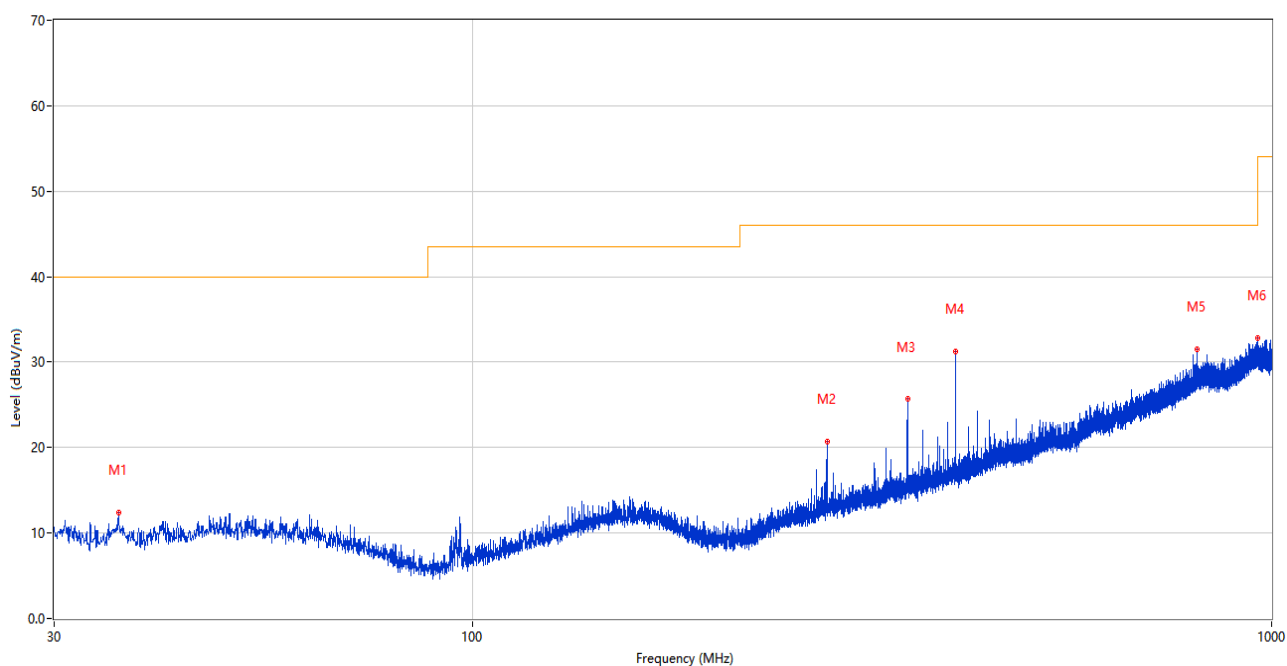
Test Mode 1

1) Test Antenna Vertical, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	48.527	12.01	40.0	27.99	Peak	2.00	200	Horizontal	Pass
2	159.010	20.85	43.5	22.65	Peak	191.00	100	Horizontal	Pass
3	301.746	23.81	46.0	22.19	Peak	274.00	100	Horizontal	Pass
4	398.697	30.81	46.0	15.19	Peak	138.00	200	Horizontal	Pass
5	451.077	32.10	46.0	13.90	Peak	186.00	200	Horizontal	Pass
6	946.990	32.59	46.0	13.41	Peak	358.00	200	Horizontal	Pass

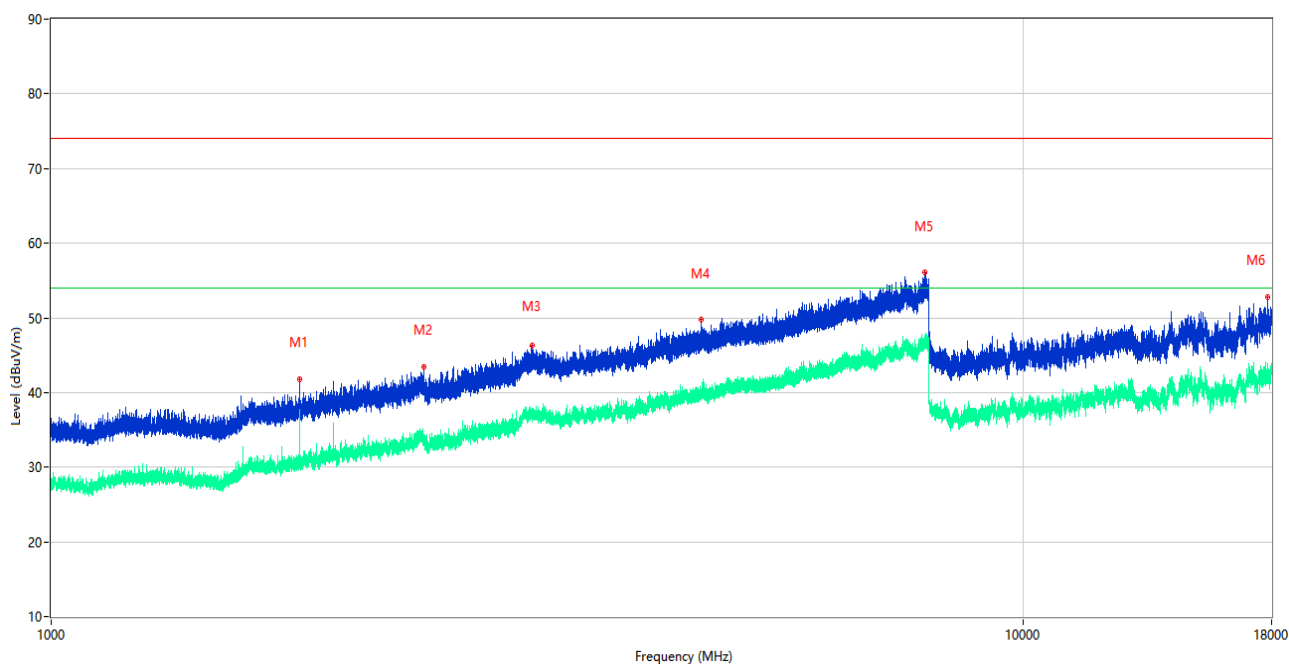
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	36.111	12.41	40.0	27.59	Peak	174.00	100	Vertical	Pass
2	277.786	20.65	46.0	25.35	Peak	239.00	200	Vertical	Pass
3	350.342	25.67	46.0	20.33	Peak	246.00	200	Vertical	Pass
4	402.674	31.23	46.0	14.77	Peak	246.00	200	Vertical	Pass
5	805.854	31.55	46.0	14.45	Peak	359.00	100	Vertical	Pass
6	961.006	32.78	54.0	21.22	Peak	360.00	100	Vertical	Pass

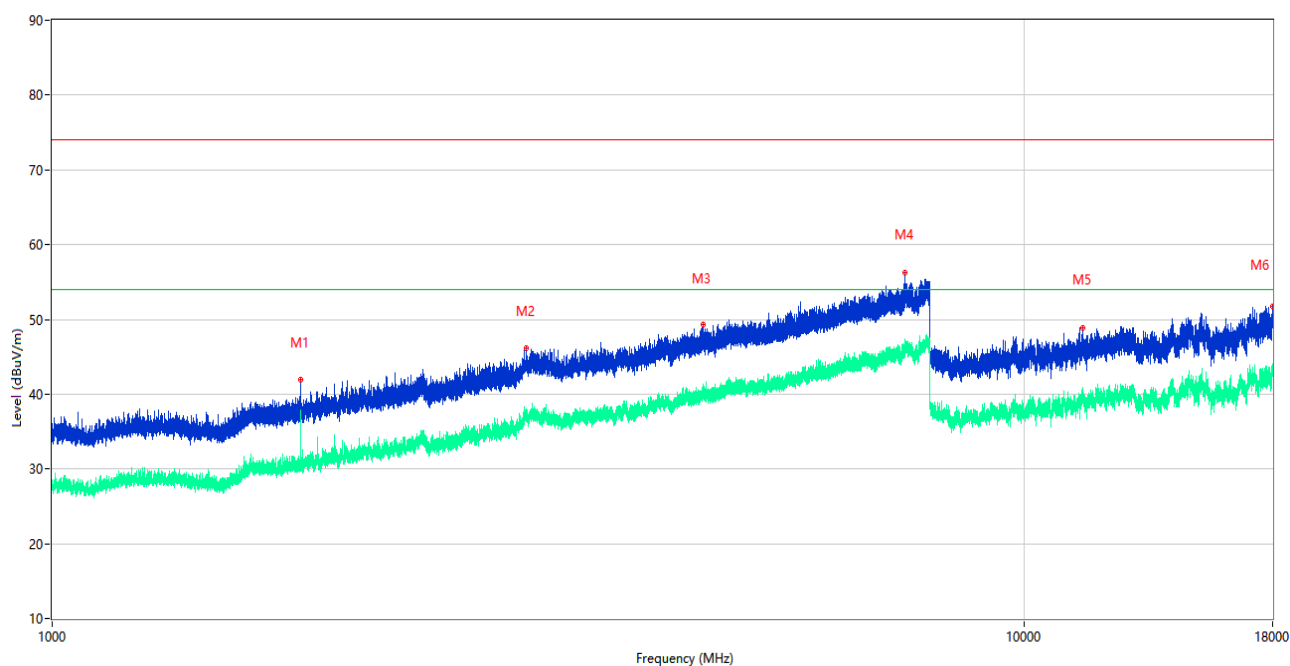
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330121	2025.12.26	2026.12.25	☒
Test Antenna-Bi-Log	SCHWARZB ECK	VULB 9163	01414	2023.11.03	2026.11.02	☒
Anechoic Chamber	EMC Electronic Co., Ltd	C8-966	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 – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1800.000	41.74	74.0	32.26	Peak	60.00	100	Horizontal	Pass
1**	1800.000	37.68	54.0	16.32	AV	60.00	100	Horizontal	Pass
2	2415.100	43.48	74.0	30.52	Peak	252.00	100	Horizontal	Pass
2**	2415.100	33.45	54.0	20.55	AV	252.00	100	Horizontal	Pass
3	3122.500	46.26	74.0	27.74	Peak	0.00	100	Horizontal	Pass
3**	3122.500	36.80	54.0	17.20	AV	0.00	100	Horizontal	Pass
4	4662.000	49.82	74.0	24.18	Peak	195.00	100	Horizontal	Pass
4**	4662.000	39.70	54.0	14.30	AV	195.00	100	Horizontal	Pass
5	7914.500	56.12	74.0	17.88	Peak	33.00	100	Horizontal	Pass
5**	7914.500	46.80	54.0	7.20	AV	33.00	100	Horizontal	Pass
6	17828.499	52.81	74.0	21.19	Peak	273.00	100	Horizontal	Pass
6**	17828.499	42.33	54.0	11.67	AV	273.00	100	Horizontal	Pass

4) Test Antenna Horizontal, 1 GHz –18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1800.200	41.92	74.0	32.08	Peak	167.00	100	Vertical	Pass
1**	1800.200	37.28	54.0	16.72	AV	167.00	100	Vertical	Pass
2	3072.250	46.12	74.0	27.88	Peak	1.00	100	Vertical	Pass
2**	3072.250	38.07	54.0	15.93	AV	1.00	100	Vertical	Pass
3	4672.500	49.38	74.0	24.62	Peak	283.00	100	Vertical	Pass
3**	4672.500	40.10	54.0	13.90	AV	283.00	100	Vertical	Pass
4	7539.250	56.30	74.0	17.70	Peak	12.00	100	Vertical	Pass
4**	7539.250	45.59	54.0	8.41	AV	12.00	100	Vertical	Pass
5	11494.500	48.93	74.0	25.07	Peak	301.00	100	Vertical	Pass
5**	11494.500	39.39	54.0	14.61	AV	301.00	100	Vertical	Pass
6	17999.499	51.81	74.0	22.19	Peak	132.00	100	Vertical	Pass
6**	17999.499	43.52	54.0	10.48	AV	132.00	100	Vertical	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: Not applicable.

ANNEX B TEST SETUP PHOTOS

Please refer the document “Ti-EE26060596-AE.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “Ti-EE26060596-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “Ti-EE26060596-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--