

TEST REPORT

Applicant: TENG INTERNACIONAL TRADING LIMITED
Address: 4f 299 QRC NOS 287 299 QUEENS RD CENTRAL,
HONG KONG
Equipment Type: Pos Terminal
Model Name: K8 (refer to section 2.3)
Brand Name: TENG INTERNACIONAL
FCC ID: 2BTGQ-K8
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Mar. 09, 2026
Test Date: Mar. 13, 2026
Date of Issue: May 08, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.



Tested by: Yang Panxia

Checked by: Xiong Chong

Approved by: Tolan Tu
(Testing Director)

Yang Panxia

Xiong Chong

Tolan Tu

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>May 08, 2026</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
	☐ Building 2, Intelligent Connected Vehicle Industrial Park, No. 55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an 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. The certification body is American Association for Laboratory Accreditation (A2LA).

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	TENG INTERNACIONAL TRADING LIMITED
Address	4f 299 QRC NOS 287 299 QUEENS RD CENTRAL, HONG KONG

2.2 Manufacturer Information

Manufacturer	TENG INTERNACIONAL TRADING LIMITED
Address	4f 299 QRC NOS 287 299 QUEENS RD CENTRAL, HONG KONG

2.3 General Description for Equipment under Test (EUT)

EUT Name	Pos Terminal
Model Name Under Test	K8
Series Model Name	K8s
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in magnetic head function and thickness. (this information provided by the applicant)
Hardware Version	V3
Software Version	SP7997A_V022_20251112_debug
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	N/A
	Model No.	SP7997A
	Serial No.	N/A
	Capacity	5100 mAh
	Rated Voltage	3.6 V
	Limit Charge Voltage	4.2 V
Ancillary Equipment 2	Adapter 1	
	Brand Name	N/A
	Model No.	F10L1-050200SPAE-U
	Serial No.	N/A
	Rated Input	100-240V~, 50/60Hz, 0.3A
	Rated Output	5.0V= 2.0A
Ancillary Equipment 3	Adapter 2	
	Brand Name	N/A
	Model No.	GLH50R2000HW
	Serial No.	N/A
	Rated Input	100-240V~, 50/60Hz, 0.4A
	Rated Output	5.0V= 2.0A
Ancillary Equipment 4	USB Cable	
	Length (Approx.)	1.51 m

2.5 Technical Information

Network and Wireless connectivity	Bluetooth, WIFI, NFC, GPRS, EDGE, WCDMA, HSDPA, HSUPA, LTE
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	--

Note: Compared with the EUT of test report BL-SZ25B1341-401, the changes of the EUT of this report as below:

1. Add magnetic head function
2. The top dimension has been reduced from a thickness of 61.4mm to 52.5mm
3. Add model name: K8s

Other hardware circuit and software are the same as EUT referred in test report BL-SZ25B1341-401. Therefore, only Radiated Emission was tested in this report, other test data please refer to report BL-SZ25B1341-401, which was issued by Shenzhen BALUN Technology Co., Ltd. Jan. 26, 2026.

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)-AMN	3.2 dB
Radiated emissions (30 MHz-1 GHz)-C8-966	4.2 dB
Radiated emissions (1 GHz-18 GHz)-C8-966	5.3 dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Enclosure List

Note: Not applicable.

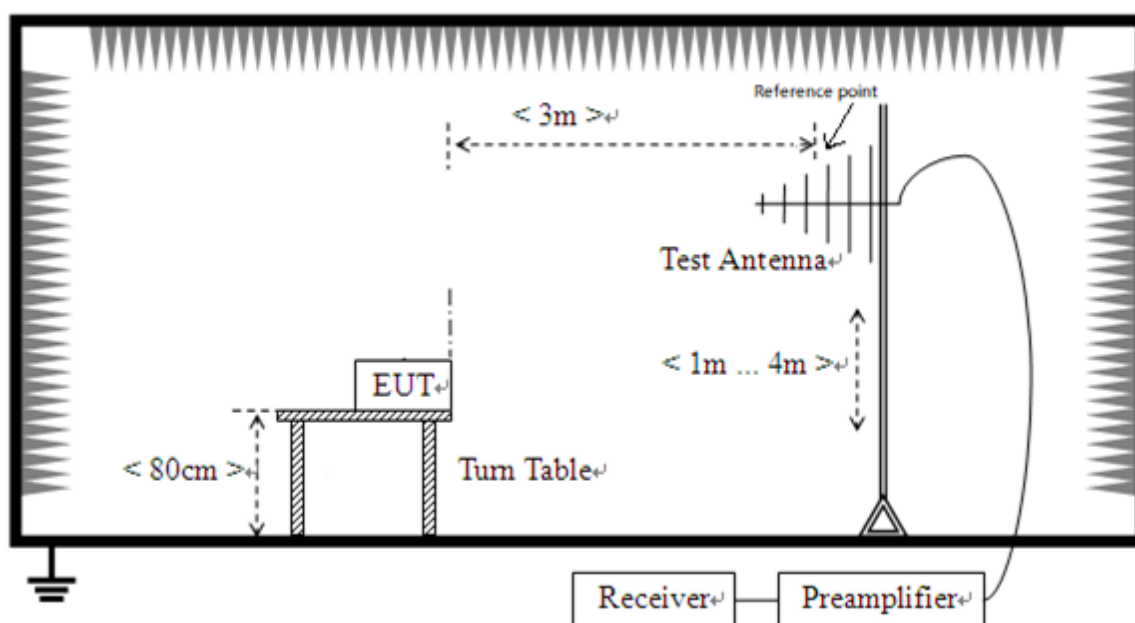
4.2 Test Configurations

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

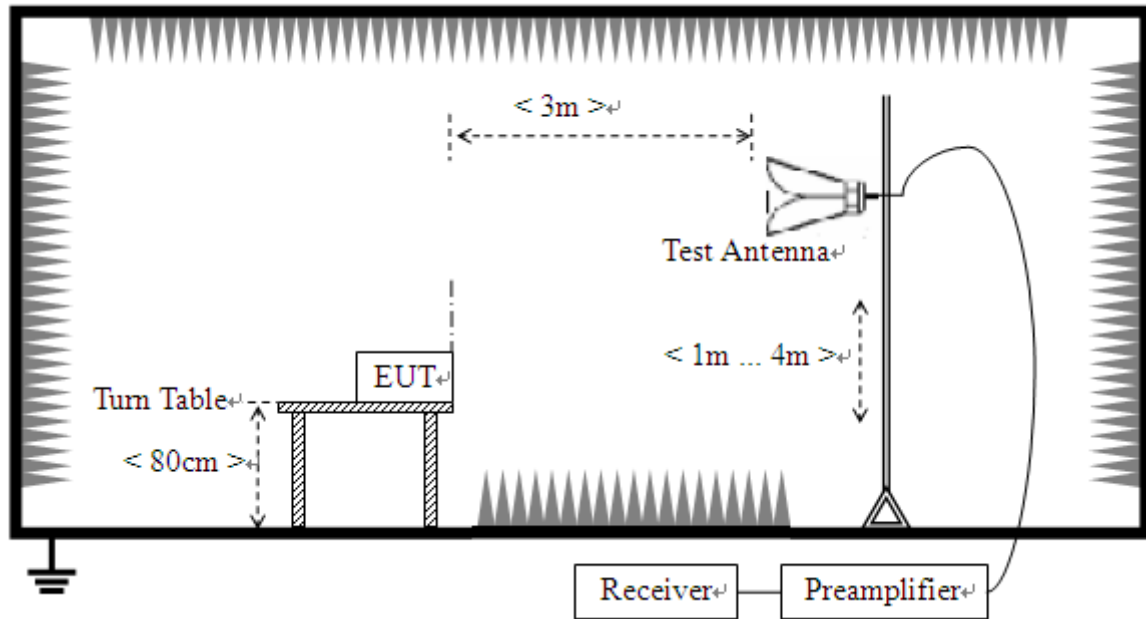
Test Mode Configuration	Description
Mode 1	<u>The Print Test Mode</u> EUT + Battery + Adapter + USB Cable
Note: This report only tests the worst test mode of report BL-SZ25B1341-401, other Test Configurations please refer to report BL-SZ25B1341-401, which was issued by Shenzhen BALUN Technology Co., Ltd. on Jan. 26, 2025.	

4.3 Test Setups

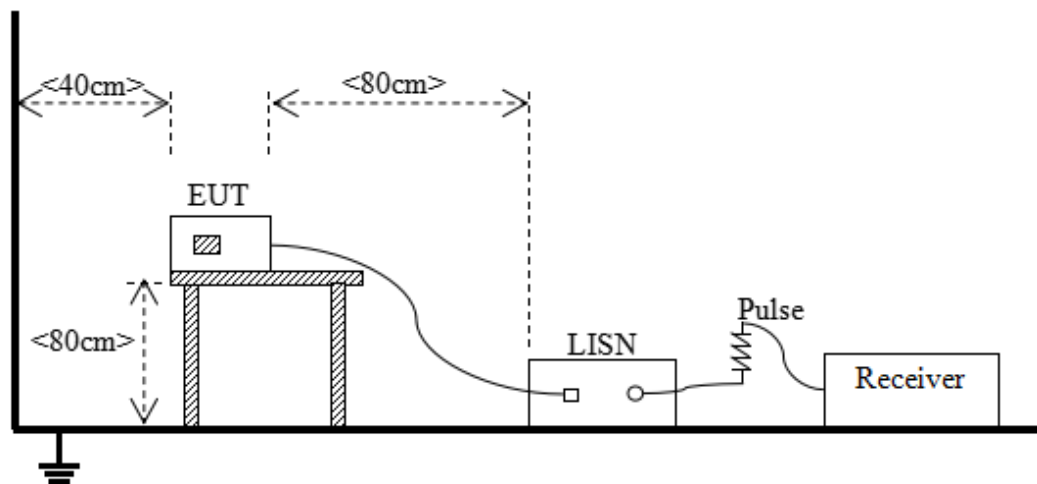
Test Setup 1



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.

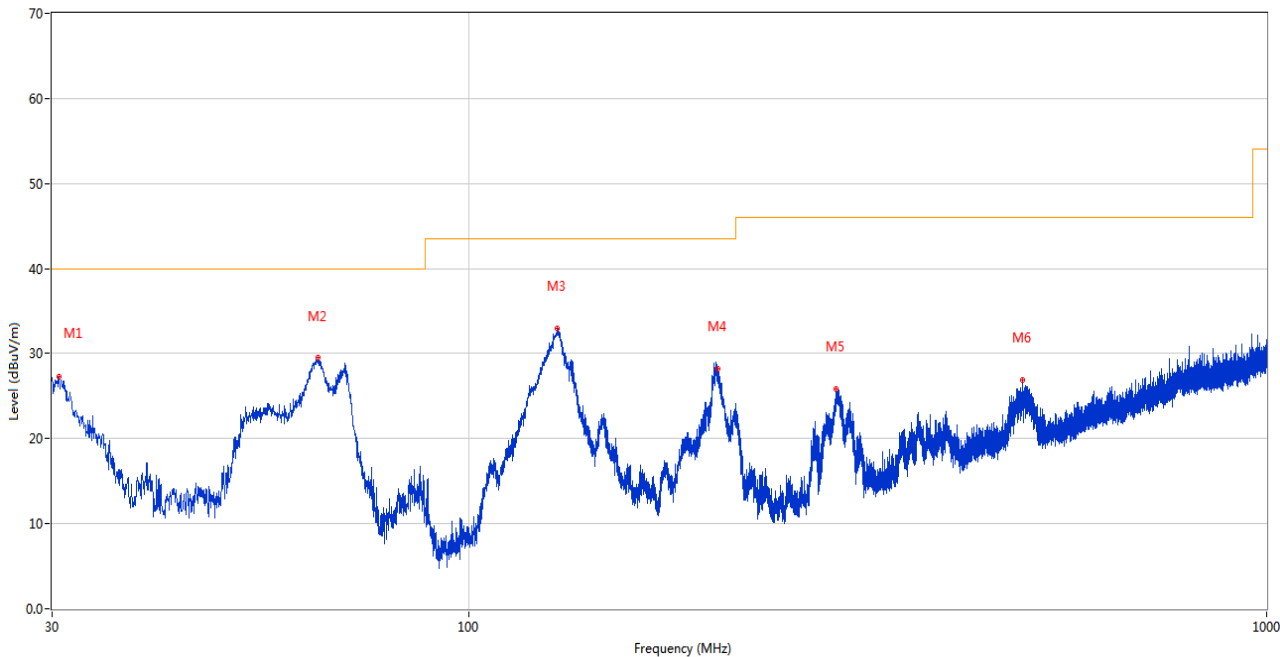
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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.	EE26010554-001-S02 SC-SZ25B0425-A03 SC-SZ25B0424-A09	Temperature	24.2℃
Humidity	52%RH	Pressure	101.4kPa
Test Engineer	Dong Yaohui	Test Date	2026.03.13

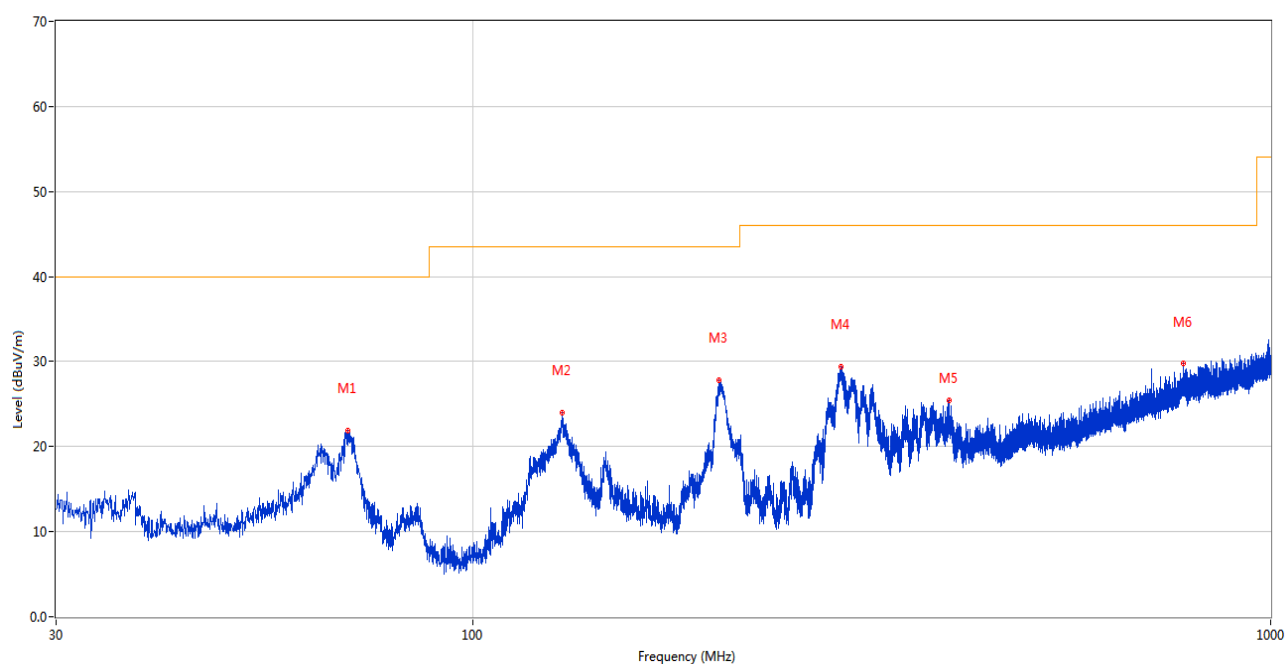
Test Mode 1

1) Test Antenna Vertical, 30 MHz – 1 GHz



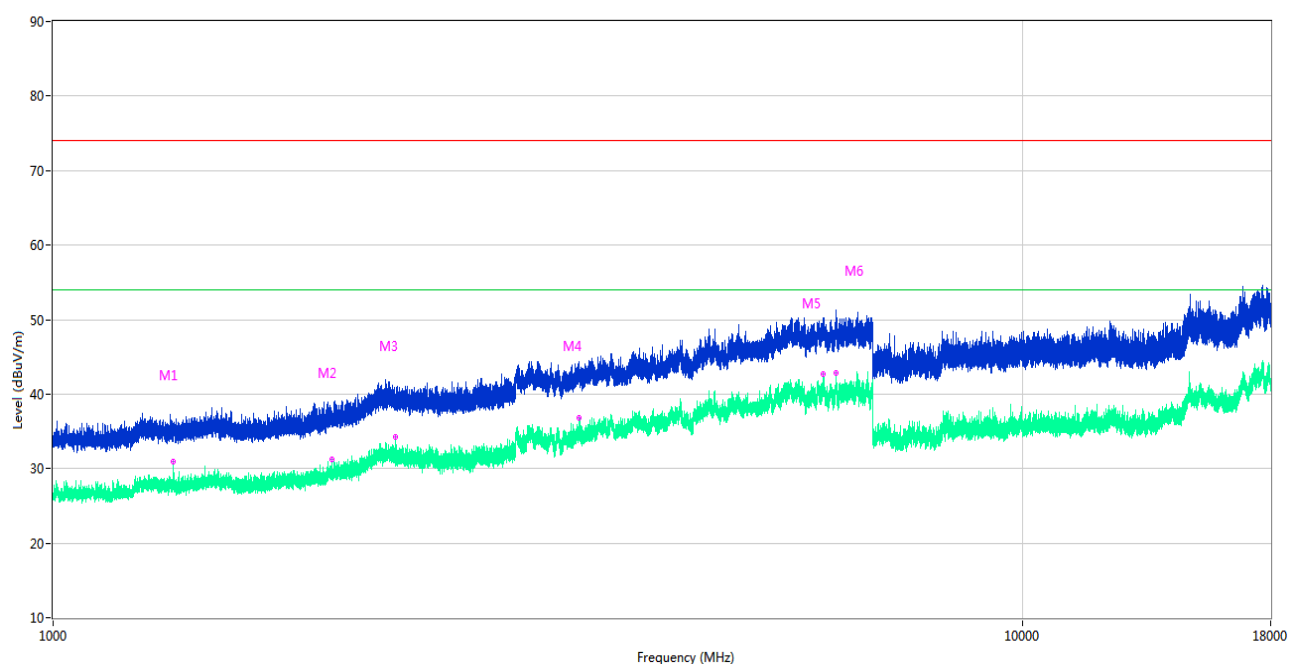
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.582	27.32	-27.05	40.0	12.68	Peak	154.00	100	Vertical	Pass
2	64.629	29.47	-26.52	40.0	10.53	Peak	69.00	100	Vertical	Pass
3	129.085	32.94	-26.27	43.5	10.56	Peak	237.00	100	Vertical	Pass
4	205.376	28.24	-27.47	43.5	15.26	Peak	256.00	100	Vertical	Pass
5	288.699	25.81	-23.22	46.0	20.19	Peak	228.00	100	Vertical	Pass
6	494.000	26.92	-16.85	46.0	19.08	Peak	172.00	100	Vertical	Pass

2) Test Antenna Horizontal, 30 MHz – 1 GHz



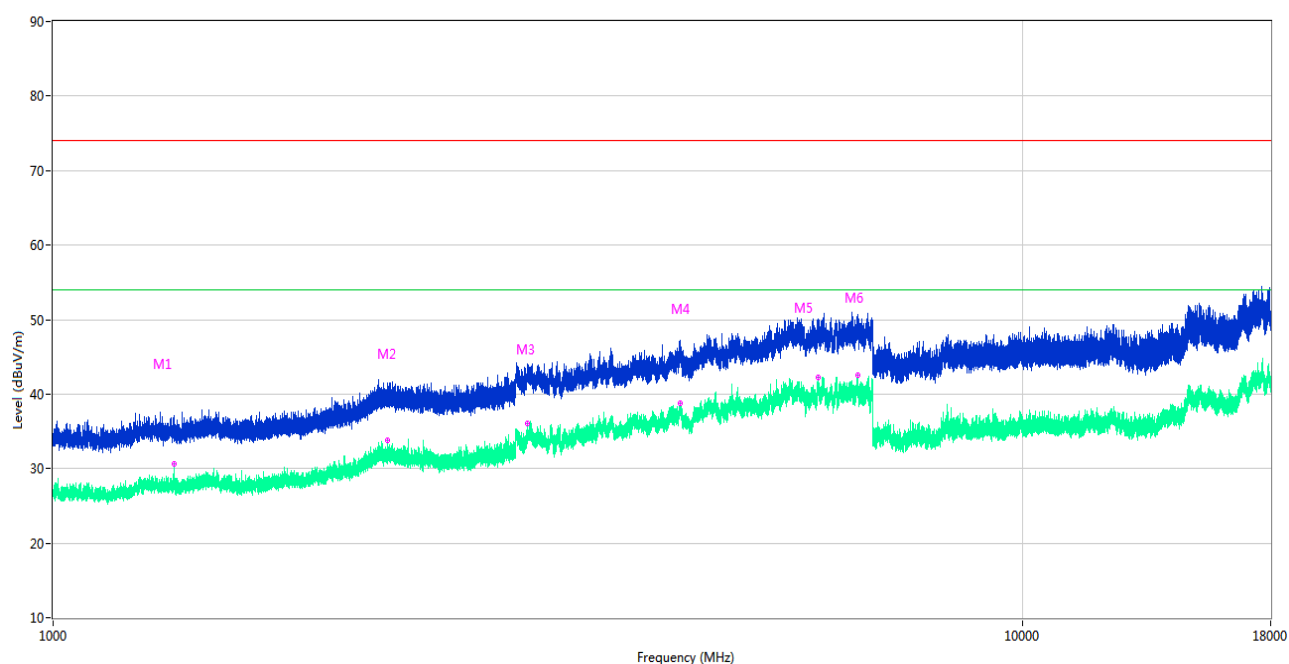
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	69.721	21.91	-27.12	40.0	18.09	Peak	360.00	100	Horizontal	Pass
2	129.182	24.00	-26.26	43.5	19.50	Peak	300.00	100	Horizontal	Pass
3	203.533	27.84	-27.53	43.5	15.66	Peak	80.00	100	Horizontal	Pass
4	289.378	29.46	-23.19	46.0	16.54	Peak	125.00	100	Horizontal	Pass
5	395.496	25.47	-19.79	46.0	20.53	Peak	98.00	100	Horizontal	Pass
6	777.094	29.76	-10.13	46.0	16.24	Peak	212.00	100	Horizontal	Pass

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	1329.400	36.06	-15.71	74.0	37.94	Peak	360.00	100	Vertical	Pass
1**	1329.400	30.91	-15.71	54.0	23.09	AV	360.00	100	Vertical	Pass
2	1936.600	36.85	-14.28	74.0	37.15	Peak	69.00	100	Vertical	Pass
2**	1936.600	31.24	-14.28	54.0	22.76	AV	69.00	100	Vertical	Pass
3	2254.500	38.44	-11.65	74.0	35.56	Peak	300.00	200	Vertical	Pass
3**	2254.500	34.22	-11.65	54.0	19.78	AV	300.00	200	Vertical	Pass
4	3486.000	43.92	-7.47	74.0	30.08	Peak	130.00	100	Vertical	Pass
4**	3486.000	36.79	-7.47	54.0	17.21	AV	130.00	100	Vertical	Pass
5	6226.600	48.84	1.84	74.0	25.16	Peak	360.00	100	Vertical	Pass
5**	6226.600	42.76	1.84	54.0	11.24	AV	360.00	100	Vertical	Pass
6	6415.200	51.24	1.45	74.0	22.76	Peak	360.00	200	Vertical	Pass
6**	6415.200	42.81	1.45	54.0	11.19	AV	360.00	200	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	1333.400	34.94	-15.57	74.0	39.06	Peak	70.00	100	Horizontal	Pass
1**	1333.400	30.67	-15.57	54.0	23.33	AV	70.00	100	Horizontal	Pass
2	2214.200	39.91	-11.03	74.0	34.09	Peak	279.00	100	Horizontal	Pass
2**	2214.200	33.85	-11.03	54.0	20.15	AV	279.00	100	Horizontal	Pass
3	3086.000	41.64	-7.71	74.0	32.36	Peak	360.00	100	Horizontal	Pass
3**	3086.000	36.02	-7.71	54.0	17.98	AV	360.00	100	Horizontal	Pass
4	4430.200	45.06	-4.28	74.0	28.94	Peak	360.00	200	Horizontal	Pass
4**	4430.200	38.76	-4.28	54.0	15.24	AV	360.00	200	Horizontal	Pass
5	6148.600	49.56	0.79	74.0	24.44	Peak	276.00	100	Horizontal	Pass
5**	6148.600	42.26	0.79	54.0	11.74	AV	276.00	100	Horizontal	Pass
6	6749.800	47.78	1.93	74.0	26.22	Peak	360.00	100	Horizontal	Pass
6**	6749.800	42.59	1.93	54.0	11.41	AV	360.00	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	2025.04.16	2026.04.15	☒
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	/		☒
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Above 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330121	2025.04.16	2026.04.15	☒
EMI Receiver	R&S	FSV-40	101544	2025.10.30	2026.10.29	☒
Test Antenna-Horn	SCHWARZB ECK	BBHA 9120D	02459	2023.10.26	2026.10.25	☒
Test Antenna-Horn	A-INFOMW	LB-180400KF	J211060273	2024.06.15	2027.06.14	☒
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: Please refer to report BL-SZ25B1341-401.

ANNEX B TEST SETUP PHOTOS

Please refer the document “Ti-EE26030228-AE-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “Ti-EE26030228-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “Ti-EE26030228-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--