Shenzhen Xinglian Technology Research & Development Co., Ltd.

TEST REPORT

SCOPE OF WORK
EMC TESTING – LT10

REPORT NUMBER
GZHH00633893-001

ISSUE DATE
05 MAR 2026

PAGES
31

DOCUMENT CONTROL NUMBER
EN55014-1/2_d

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TEST REPORT

EMC VERIFICATION SUMMARY

Intertek Report No.: GZHH00633893-001

☐ E-Toys ☐ ITE ☑ Others _

Model: LT10 Product Description: LASER LEVEL	Applicant: Shenzhen Xinglian Technology Research & Development Co., Ltd. 4A702, No. 4 Factory Building, No. 7, Ganli Sixth Road, Gankeng Community, Jihua Street, Longgang District, Shenzhen, China Sample Receipt Date: 02 Feb 2026 Test Conducted Date: 02 Feb 2026 to 14 Feb 2026		
☒ 1st TEST ☐ 2nd TEST	ALL TESTS WERE CONDUCTED IN ACCORDANCE WITH: * EN 55014-1:2017+A11:2020 & EN IEC 55014-1:2021 * EN 55014-2:1997+A2:2008 & EN IEC 55014-2:2021 * EN 61000-3-2: 2014 & EN IEC 61000-3-2:2019+A1:2021+A2:2024 * EN 61000-3-3: 2013 & EN 61000-3-3:2013+A1:2019+A2:2021		
Test Site and Location:	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Block E, No.7-2 Guangdong Software Science Park, Caipin Road, Science City, GETDD Guangzhou, China		
Test Result	OK	Not OK	Remark (See page 2)
* EN 55014-1:2017+A11:2020 & EN IEC 55014-1:2021	☒	☐	☐
* EN 55014-2:1997+A2:2008 & EN IEC 55014-2:2021	☒	☐	☐
* EN 61000-3-2: 2014 & EN IEC 61000-3-2:2019+A1:2021+A2:2024	☒	☐	☒
* EN 61000-3-3: 2013 & EN 61000-3-3:2013+A1:2019+A2:2021	☒	☐	☒
Note: The Highest frequency of the internal sources of the EUT is 48 MHz, the measurement frequency shall be made up to 1GHz. (Refer to EN IEC 55014-1:2021 Clause 4.3.5)			
When determining the test conclusion, the Measurement Uncertainty of test has been considered.			

Prepared and Checked By:

Stella Ling ***Signature***

Stella Ling
Engineer

Approved By:

Signature

Parco Leung
Manager
05 Mar 2026 ***Date***

Intertek Testing Services Shenzhen Limited, Guangzhou Branch
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EMC Results Conclusion
(With Justification)

RE: EMC Testing Pursuant to EMC Directive 2014/30/EU, Performed On the LASER LEVEL,
Model: LT10

We tested the LASER LEVEL, Model: LT10, to determine if it was in compliance with the relevant EN standards as marked on the EMC Verification Summary. We found that the unit met the requirement of EN IEC 55014-1, EN IEC 55014-2, EN 61000-3-2, EN 61000-3-3 standards when tested as received.

The production units are required to conform to the initial sample as received when the units are placed on the market.

Remark: Standards against which no testing has been conducted of the captioned model and the engineering judgement is stated as follows:

EN61000-3-2: This product has power consumption 75W or less under normal operating conditions. It is therefore not likely to produce harmonics above the limits of the standard. The product is deemed to comply with the standard without any measurements.

EN61000-3-3: This apparatus is unlikely to produce significant voltage fluctuations and flicker by examination of the specification of it. Therefore, it is deemed to fulfil the relevant standard without testing according to clause 6.1 of EN 61000-3-3.

LABORATORY MEASUREMENTS

Configuration Information

Equipment Under Test (EUT):	LASER LEVEL
Models:	LT10
Serial No.:	Not Labelled
Support Equipment:	N/A
Cables:	USB Cable length with 96cm, Unshielded (Provided by Client)
Adaptor:	XIAOMI Adaptor (Model: MDY-09-EW) (Input: AC 100~240V 50/60Hz Output: DC 5.0V 2.0A max) (Provided by Intertek)
Rating:	DC 3.7V (1x 3.7V 300 mAh)

PERFORMANCE CRITERIA FOR IMMUNITY

Performance criterion A:

The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.

Performance criterion B:

The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however, no change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.

Performance criterion C:

Temporary loss of function is allowed, provided the function is self- recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.

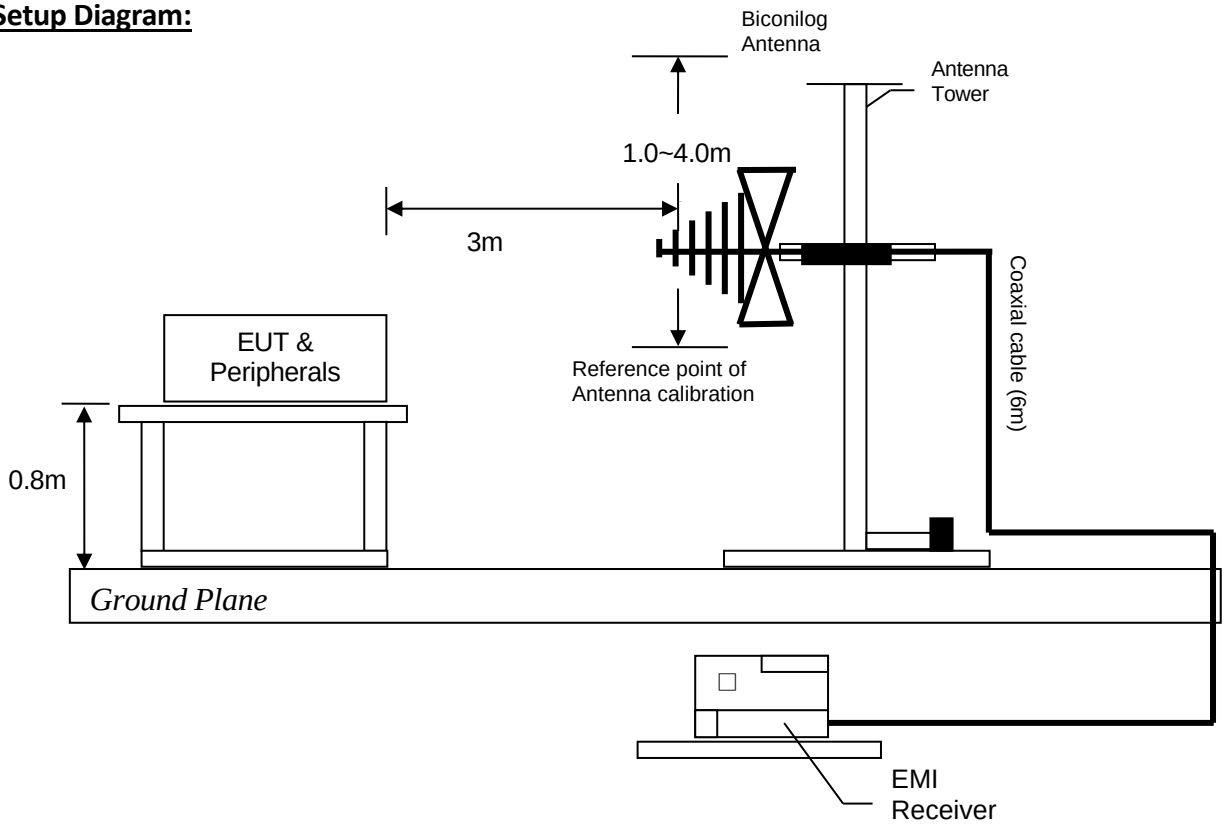
RADIATED DISTURBANCE PURSUANT TO EN IEC 55014-1: EMISSIONS REQUIREMENT

Used Test Equipment

Equip No.	Description	Manufacturer	Model No.	Cal. Date	Due Date
EM031-02	EMI Receiver	R & S	ESR7	06 Nov 25	05 Nov 26
EM033-01	Ultralog Antenna	SCHWARZBECK	VULB 9163	16 Jul 25	15 Jul 26
EM030-04	Anechoic Chamber	ETS	RFD-FA-100	09 Apr 25	08 Apr 26

Notes:
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
2. Frequency range scanned: 30MHz to 1000MHz.
3. Only emissions significantly above equipment noise floor are reported.
4. Uncertainty: ±4.72 dB at a level of confidence of 95%.

Test Setup Diagram:

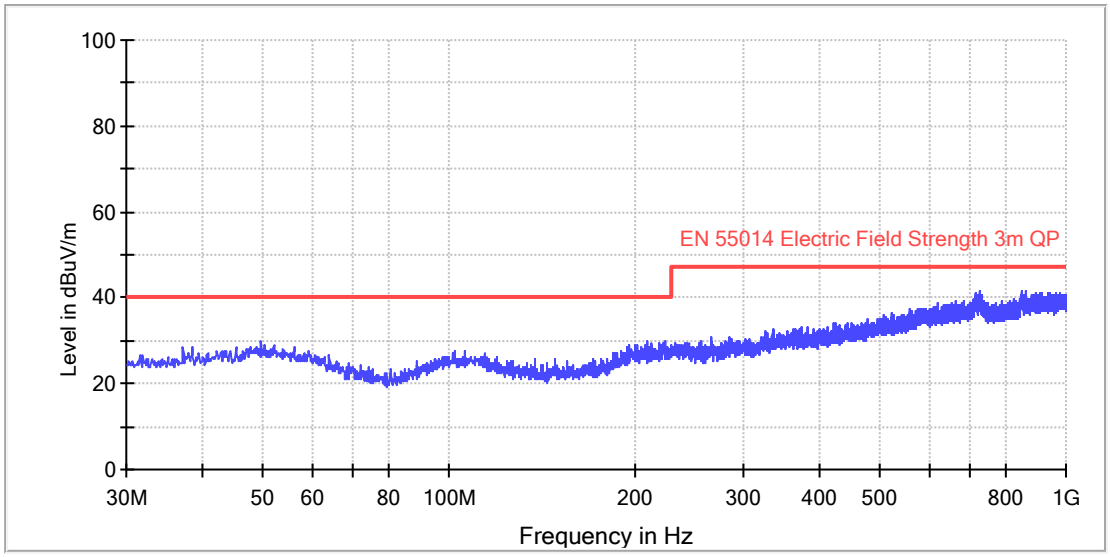


(Radiated Emission Measurements Test Setup)

Test Data

Radiated Emissions
Pursuant to EN IEC 55014-1: Emissions Requirement

Horizontal

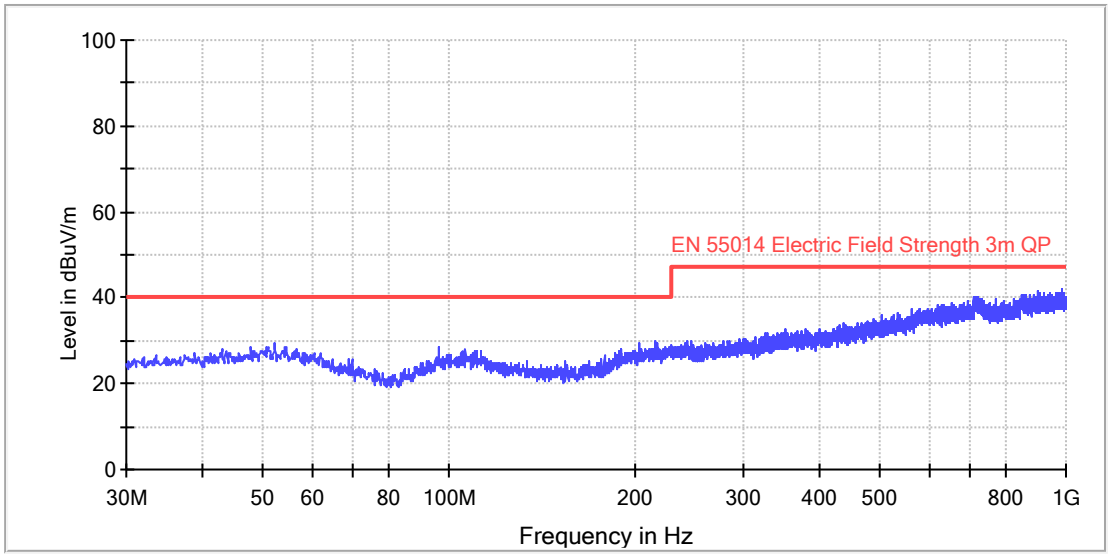


Remark: The emissions were very low against the limit in the frequency range 30MHz-1000MHz.

Test Data

Radiated Emissions
Pursuant to EN IEC 55014-1: Emissions Requirement

Vertical

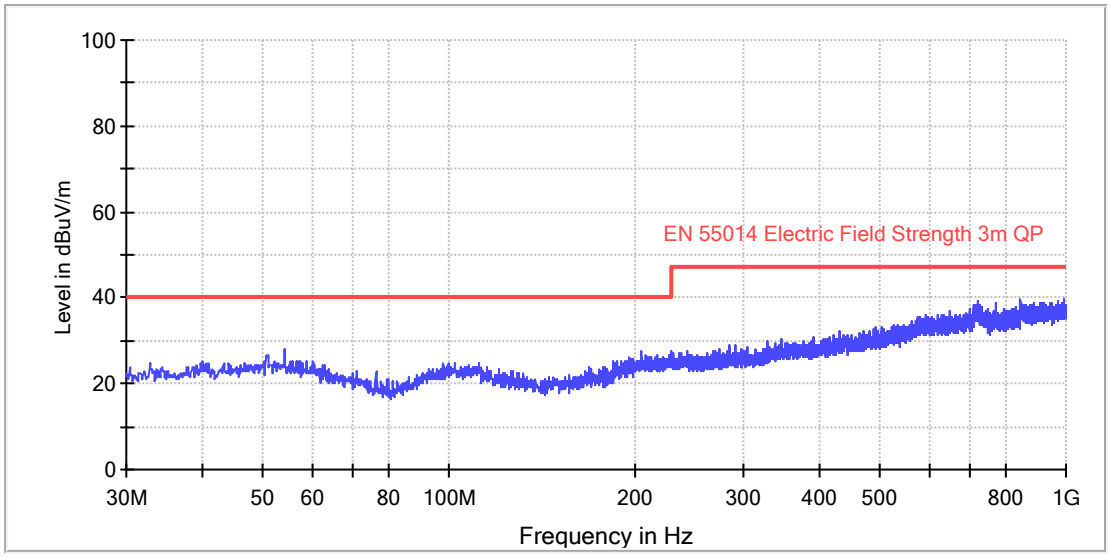


Remark: The emissions were very low against the limit in the frequency range 30MHz-1000MHz.

Test Data

Radiated Emissions
Pursuant to EN IEC 55014-1: Emissions Requirement

Horizontal

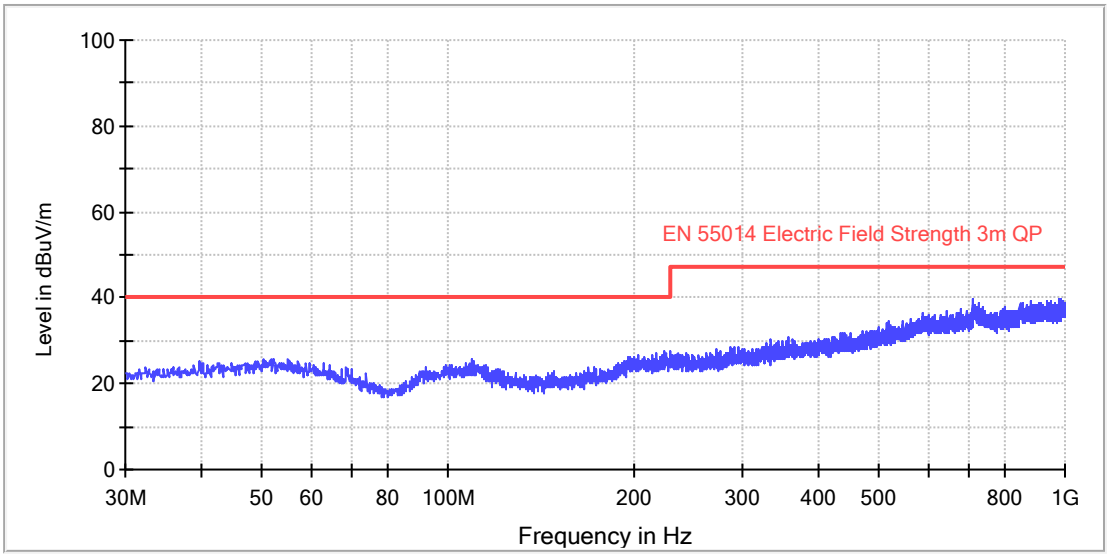


Remark: The emissions were very low against the limit in the frequency range 30MHz-1000MHz.

Test Data

Radiated Emissions
Pursuant to EN IEC 55014-1: Emissions Requirement

Vertical



Remark: The emissions were very low against the limit in the frequency range 30MHz-1000MHz.

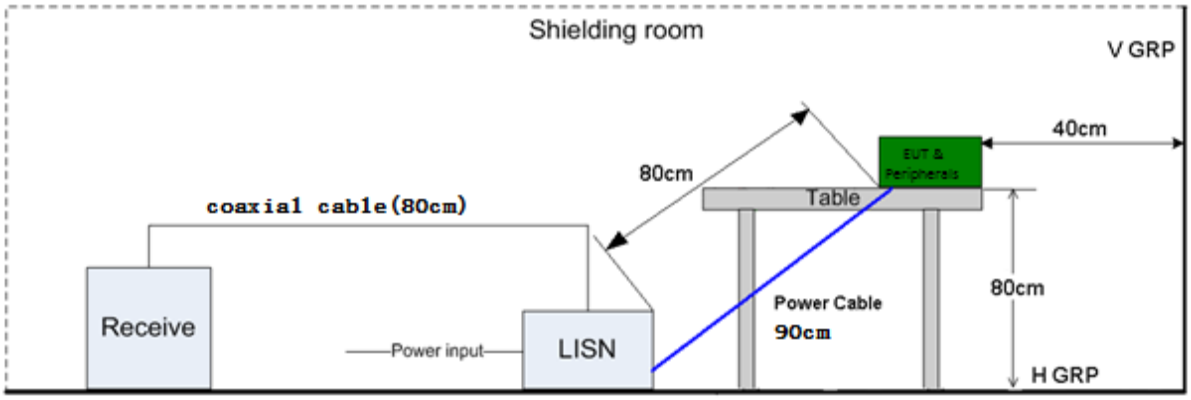
EN IEC 55014-1
RFI Voltage Test

Used Test Equipment

Equip No.	Description	Manufacturer	Model No.	Cal. Date	Due Date
EM006-05	LISN	R & S	ENV216	06 Nov 25	05 Nov 26
EM080-05	EMI Test Receiver	R & S	ESCI	16 Jul 25	15 Jul 26
EM004-04	Shielding Room	ETS	RFD-100	09 Apr 25	08 Apr 26

Notes:
1. Peak and average detector quick scan are showed on the graph and final quasi-peak and average detector data are measured, the worst-case is recorded in the following graph and table.
2. Frequency range scanned: 150kHz to 30MHz.
3. Only emissions significantly above equipment noise floor are reported.
4. Uncertainty: ±2.44dB at a level of confidence of 95%.

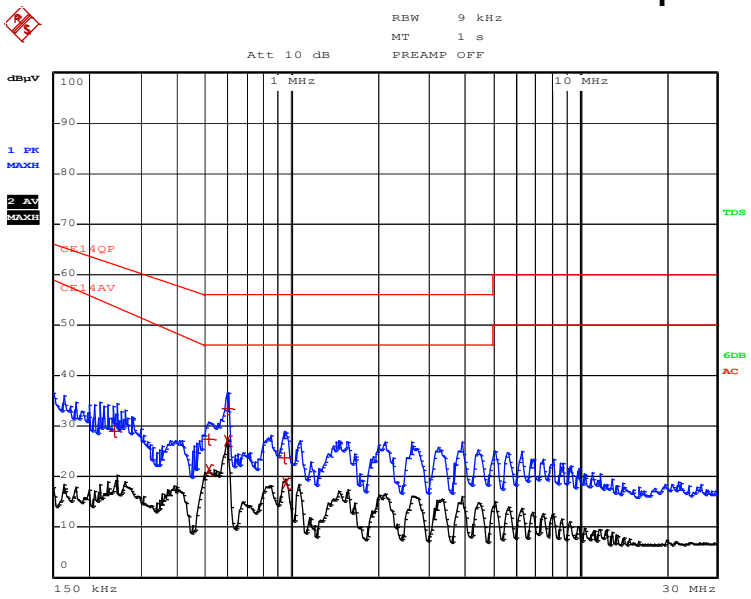
Test Setup Diagram



Test set-up of conducted disturbance for Power port

Graphic Table

RFI Voltage Test
Pursuant to EN IEC 55014-1: Emissions Requirement



Date: 5.FEB.2026 10:03:43

EDIT PEAK LIST (Final Measurement Results)

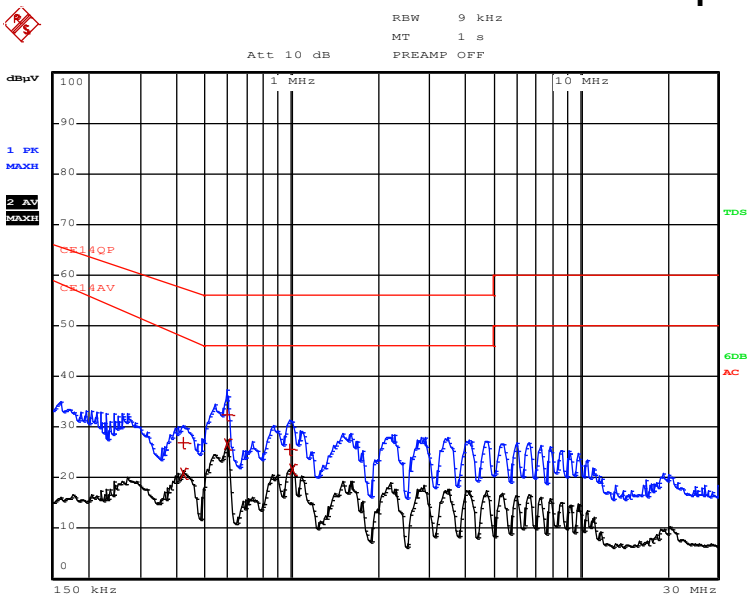
Trace1: CE14QP
Trace2: CE14AV
Trace3: ---

TRACE		FREQUENCY	LEVEL dBµV		DELTA LIMIT dB
1	Quasi Peak	246 kHz	29.09	L1	-32.79
1	Quasi Peak	514 kHz	27.45	L1	-28.54
2	CISPR Average	514 kHz	21.32	L1	-24.67
1	Quasi Peak	598 kHz	33.55	L1	-22.44
2	CISPR Average	598 kHz	27.12	L1	-18.87
1	Quasi Peak	942 kHz	23.72	L1	-32.28
2	CISPR Average	950 kHz	18.70	L1	-27.29

Date: 5.FEB.2026 10:03:32

Graphic Table

RFI Voltage Test
Pursuant to EN IEC 55014-1: Emissions Requirement



Date: 5.FEB.2026 10:06:59

EDIT PEAK LIST (Final Measurement Results)

Trace1: CE14QP
Trace2: CE14AV
Trace3: ---

TRACE		FREQUENCY	LEVEL dBµV		DELTA LIMIT dB
1	Quasi Peak	418 kHz	26.99	N	-30.49
2	CISPR Average	418 kHz	20.85	N	-27.07
1	Quasi Peak	594 kHz	32.44	N	-23.55
2	CISPR Average	598 kHz	26.52	N	-19.47
1	Quasi Peak	990 kHz	25.67	N	-30.32
2	CISPR Average	1.01 MHz	21.55	N	-24.45

Date: 5.FEB.2026 10:06:49

EN 61000-4-2
Electrostatic Discharge

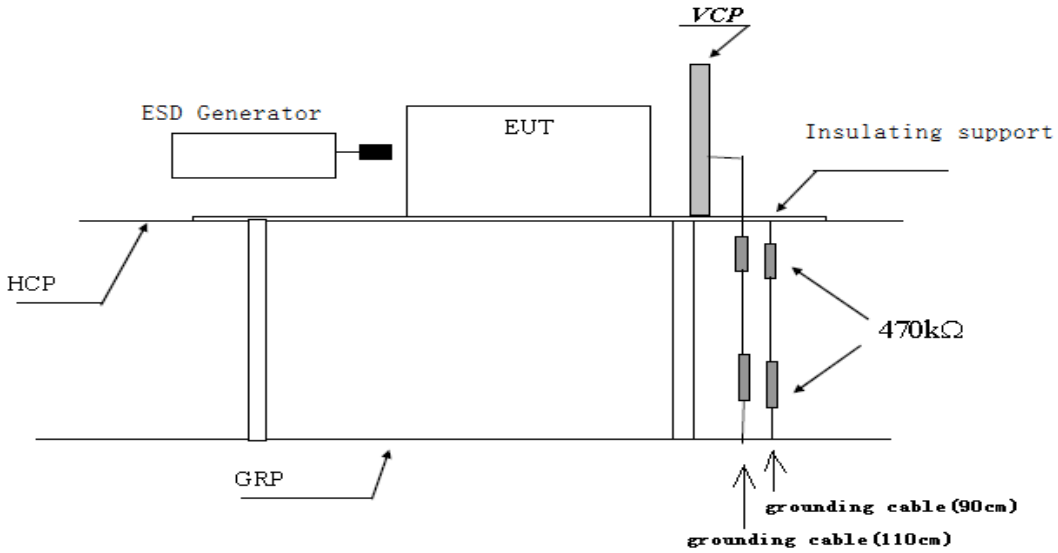
Test Summary (Pursuant to EN IEC 55014-2)

Basic Standard:	IEC 61000-4-2
Port:	Enclosure
Required Performance Criterion:	C
Limit:	±8.0kV (Air Discharge)
	±4.0kV (Contact Discharge)
	±4.0kV (Indirect Contact Discharge)
Temperature:	20.8°C
Relative Humidity:	58.1%
Test Mode:	Display
Test Setup:	Table-top
Test of Post-Installation:	N/A
Time Between Each Discharge:	1 second

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
EM077-04	ESD Simulator	TESEQ	NSG 437	18 Aug 25	19 Aug 26

Test Setup Diagram



Test set-up of electrostatic discharge

Test Results

EN 61000-4-2
Electrostatic Discharge

Discharge Type	No. of Discharge	Applied Voltage	Result (Pursuant to EN IEC 55014-2, criterion C)
Contact Discharge	20	+4kV	OK
		-4kV	OK
Air Discharge	20	+8kV	OK
		-8kV	OK
Indirect HCP Discharge	20	+4kV	OK
		-4kV	OK
Indirect VCP Discharge	20	+4kV	OK
		-4kV	OK

- **No. of discharge: 10 discharge for +ve and 10 discharge for –ve.**
- **Time between each discharge: at least 1 second.**

☒ Additional Information

☒ No observable change.

EN 61000-4-3
RADIATED IMMUNITY

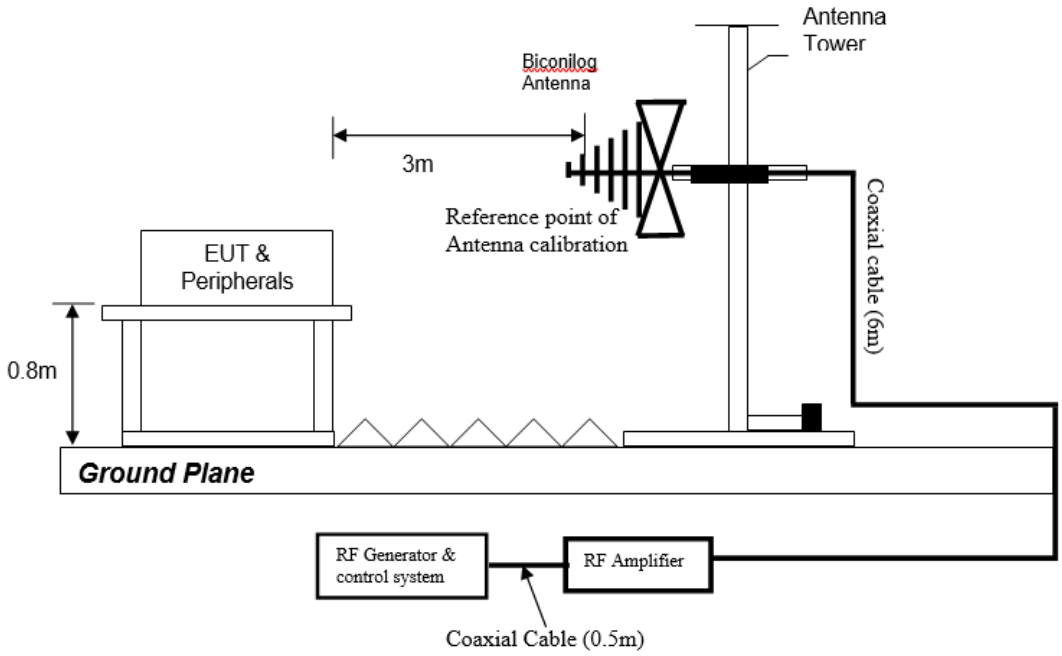
Test Summary (Pursuant to EN IEC 61547)

Basic Standard:	IEC 61000-4-3
Port:	Enclosure
Required Performance Criterion:	A
Limit:	3.0V/m (rms)
Test Modulation:	1kHz, 80% AM
Frequency:	80MHz to 1000MHz
Dwell Time:	1s
Frequency Step:	1%
Temperature:	20.9°C
Relative Humidity:	58.7%
Test Facility:	Full Anechoic Chamber
Antenna Polarization:	Horizontal and Vertical
Type of Antenna:	Log-periodic
Test Distance:	3 meters
Test Mode:	Display
Test Setup:	Table-top

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
EM061-05	Biconilog Antenna	SCHWARZBECK	VULP 9118-E	11 Oct 25	10 Oct 27
EM031-01	Signal Generator	R&S	SML02	10 Nov 25	09 Nov 26
EM046-01	Amplifier	TESEQ	80PR 1000-300	05 Feb 25	04 Feb 26
EM030-04	Anechoic Chamber	ETS	RFD-FA-100	09 Apr 25	08 Apr 26
EM086-11	Power meter	R&S	NRP2	06 Nov 25	05 Nov 26
EM086-11-01	Power sensor	R&S	NRP-Z91	06 Nov 25	05 Nov 26
EM046-03	Power Amplifier	MILMEGA	AS0860-75-45	02 Sep 25	01 Sep 26
EM061-07	Stacked Log.-Per. Broadband Antenna	SCHWARZBECK	STLP 9149	11 Oct 25	10 Oct 27
EM034-01	Open Switch and Control Platform	OSP120/1505.30 09K12	R&S	/	/

Test Setup Diagram



Test set-up of Immunity to Radiated Electric Fields

Test Results

EN 61000-4-3
Radiated Immunity

Frequency (MHz)	Exposed Side	Field Strength V/m (rms)	Result (Pursuant to EN IEC 61547, Criterion A)
80 to 1000	Front	3	OK
80 to 1000	Left	3	OK
80 to 1000	Rear	3	OK
80 to 1000	Right	3	OK

☒ Additional Information

☒ No observable change

EN 61000-4-4
Electrical Fast Transient/Burst

Test Summary (Pursuant to EN IEC 55014-2)

Basic Standard:	IEC 61000-4-4	
Port:	A.C. Power Ports	D.C. Power Ports, Signal Ports and Telecommunication Ports
Required Performance Criterion:	B	
Limit:	±1.0kV	±0.5kV
Test Duration:	2 minutes	
Test Mode:	Charging Mode	
Test Setup:	Table-top	
Generator Drive:	Internal	
Sequence of Application:	Each One	

Used Test Equipment

Equip No.	Description	Manufacturer	Model No.	Cal. Date	Due Date
EM005-12	EFT Generator	TESEQ	Nx5b-1-300-16	10 Apr 25	09 Apr 26

Test Results

EN 61000-4-4
Electrical Fast Transient/Burst

Port	Level	Polarity	Result (Pursuant to EN IEC 55014-2, Criterion B)
AC Power Lines	1kV	+	OK
	1kV	–	OK
DC Power Lines	0.5kV	+	N/A
	0.5kV	–	N/A
Signal Lines	0.5kV	+	N/A
	0.5kV	–	N/A
Control Lines	0.5kV	+	N/A
	0.5kV	–	N/A

☒ Additional Information

☒ No observable change

EN 61000-4-6
Injected Current (0.15 MHz to 230 MHz)

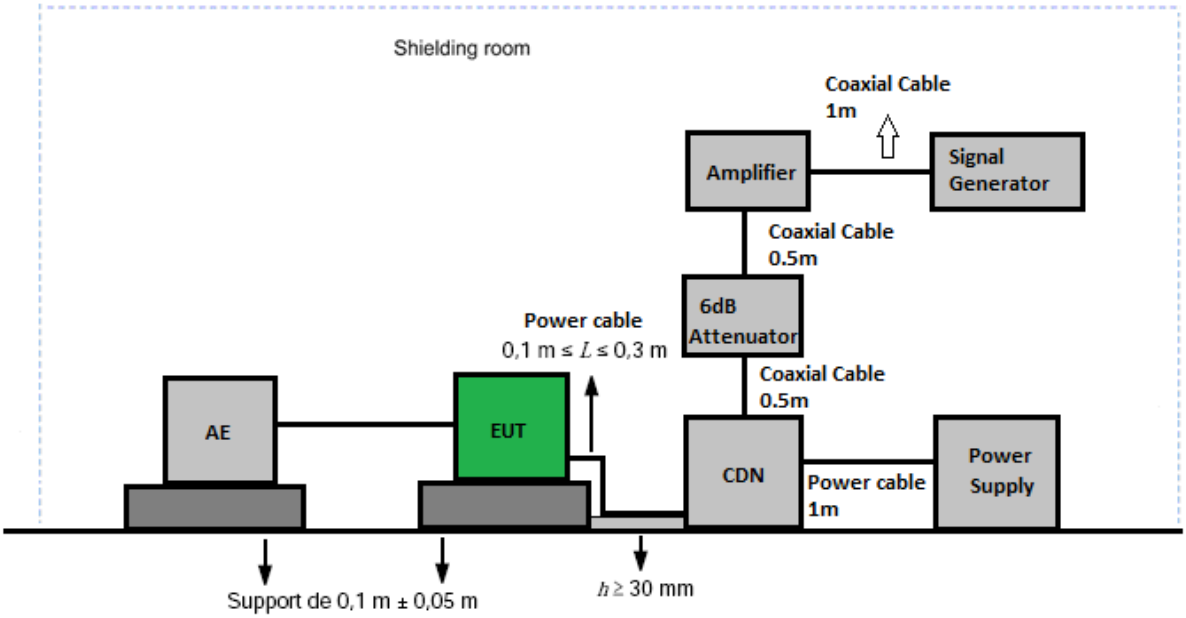
Test Summary (Pursuant to EN IEC 55014-2)

Basic Standard:	IEC 61000-4-6	
Port:	A.C. Power Ports	D.C. Power Ports, Signal Lines and Control Lines
Required Performance Criterion:	A	
Limit:	3.0V (rms)	1.0V (rms)
Test Modulation:	1 kHz, 80% AM	
Frequency:	0.15 MHz to 230 MHz	
Dwell Time:	1s	
Frequency Step:	1%	
Temperature:	22.0°C	
Relative Humidity:	61.9%	
Couping Factor of CDN:	-1.0dB ~ -1.7dB	
Test Mode:	Charging Mode	
Test Setup:	Table-top	
Equipment Under Test (EUT):	Single Unit	

Used Test Equipment

Equip No.	Description	Manufacturer	Model No.	Cal. Date	Due Date
EM019-01	Conducted Immunity Testing System	Teseq GmbH	NSG4070-75	05 Jun 25	04 Jun 26
EM019-01-03	Attenuator	Teseq GmbH	ATN6075	02 Sep 25	01 Sep 26
EM019-01-02	Coupling & Decoupling Network	Teseq GmbH	CDNM016	02 Sep 25	01 Sep 26

Test Setup Diagram



Test set-up of Injected Current

Test Results

EN 61000-4-6
Injected Current (0.15 MHz to 230 MHz)

Port:	Frequency (MHz)	Level	Result (Pursuant to EN IEC 55014-2, criterion A)
AC Power Lines	0.15 to 230	3V (rms)	OK
DC Power Lines	0.15 to 230	1V (rms)	N/A
Signal Lines	0.15 to 230	1V (rms)	N/A
Control Lines	0.15 to 230	1V (rms)	N/A

☒ Additional Information

☒ No observable change

Photos of EUT

External Photo

External Photo

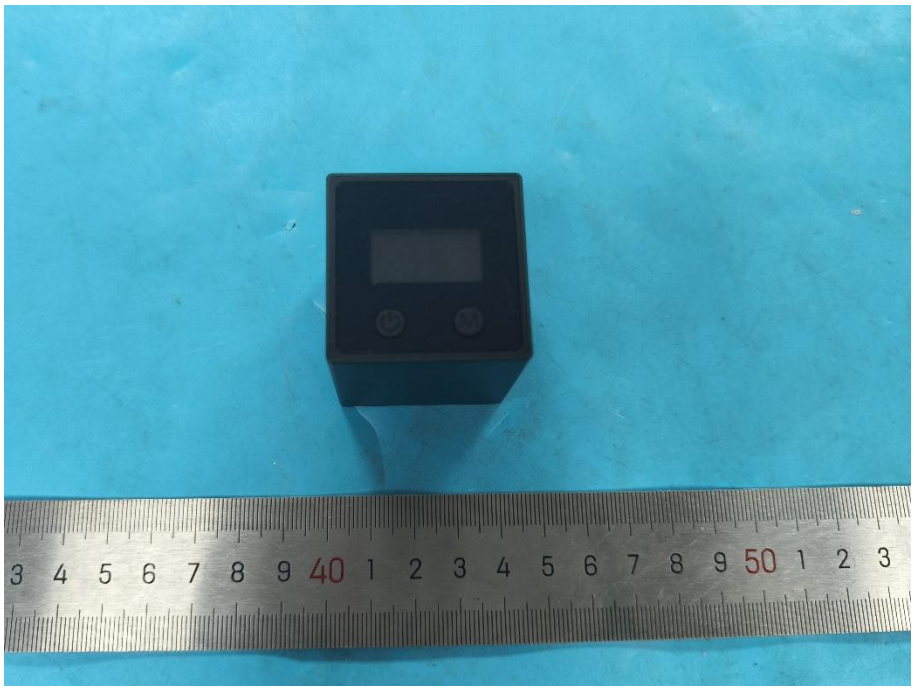
External Photo

External Photo

External Photo

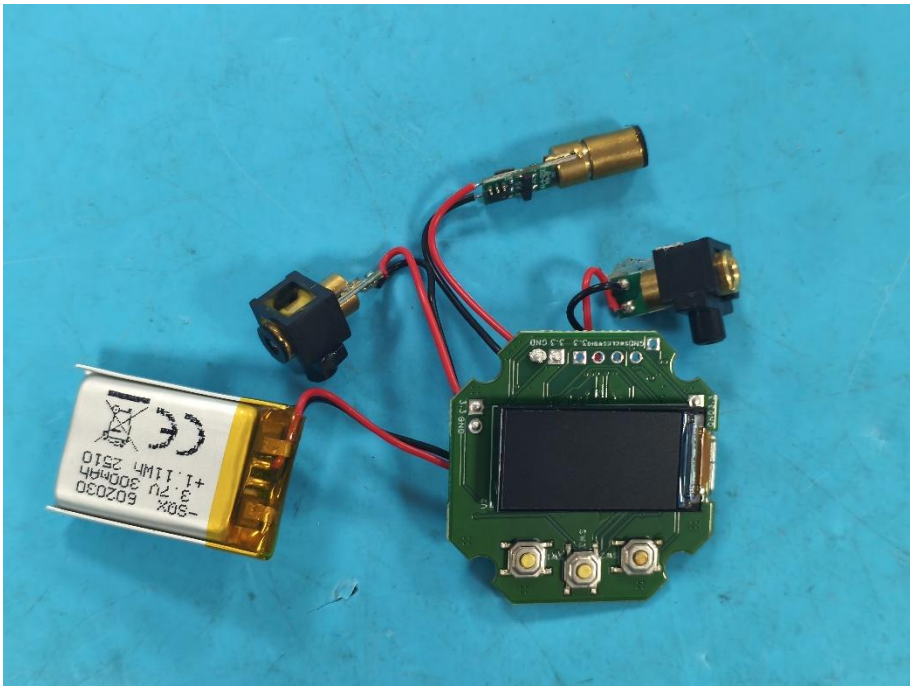
Internal Photo

Internal Photo



V

Internal Photo



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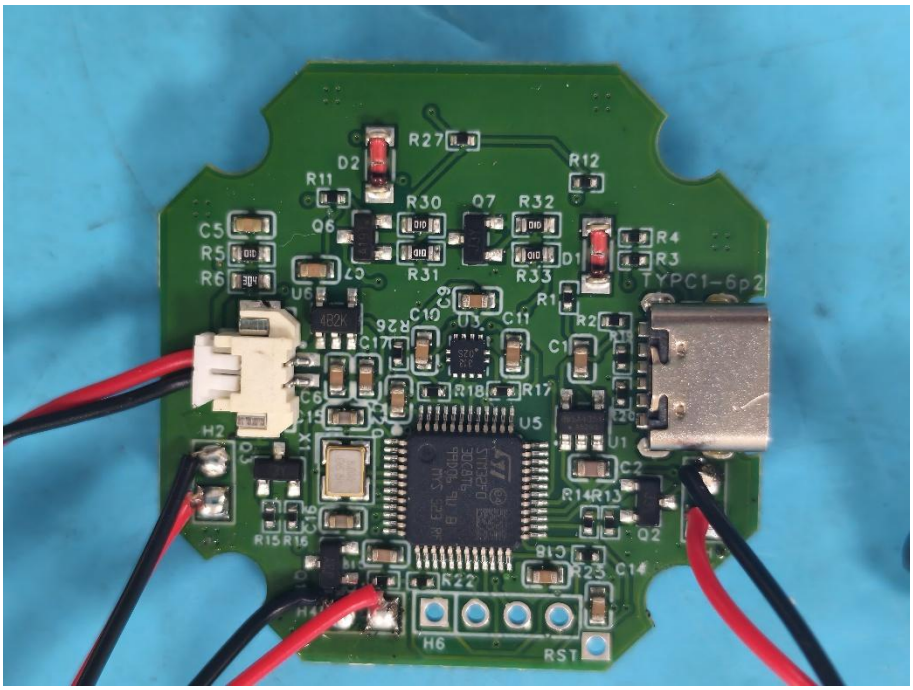

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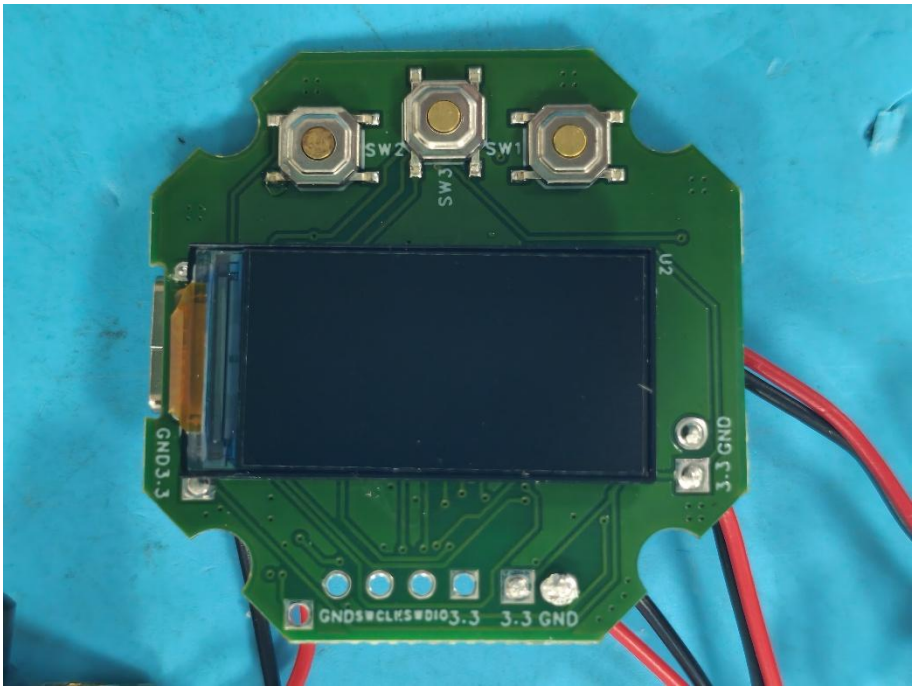

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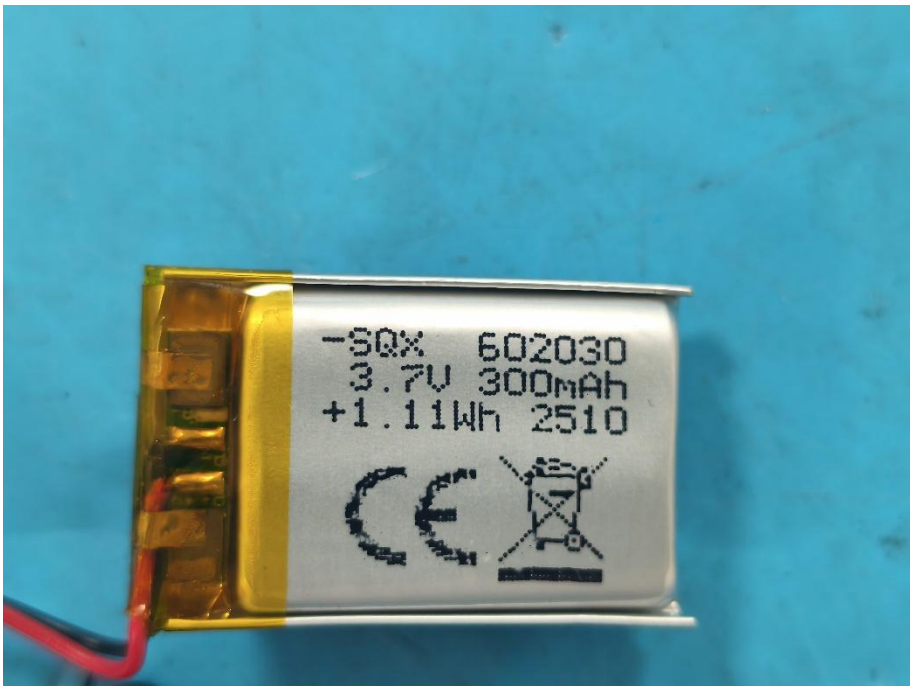

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