

Prüfbericht-Nr.: Test report no.:	CN269Q06 001	Auftrags-Nr.: Order no.:	48304067	Seite 1 von 24 Page 1 of 24																								
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2026-03-23																									
Auftraggeber: Client:	BenQ Corporation No. 16, Jihu Rd., Neihsu Dist., Taipei City 114066, Taiwan (R.O.C.)																											
Prüfgegenstand: Test item:	ScreenBar Max																											
Bezeichnung / Typ-Nr.: Identification / Type no.:	CR25																											
Auftrags-Inhalt: Order content:	Test Report for JP compliance (24GHz)																											
Prüfgrundlage: Test specification:	ARIB STD-T73 (V3.0), MIC notice 88 Appendix 22-16 Article 2-1-8 of the Certification Ordinance																											
Wareneingangsdatum: Date of sample receipt:	2026-04-07																											
Prüfmuster-Nr.: Test sample no.:	A004245026-023, 025 A004245026-027, 030																											
Prüfzeitraum: Testing period:	2026-04-29 - 2026-05-14																											
Ort der Prüfung: Place of testing:	TÜV Rheinland Taiwan Ltd. New Taipei Branch																											
Prüflaboratorium: Testing laboratory:	TÜV Rheinland Taiwan Ltd. Taipei Testing Laboratories																											
Prüfergebnis*: Test result*:	Pass																											
zusammengestellt von: compiled by:	genehmigt von: authorized by:																											
Datum: Date:	2026-05-20	Ausstellungsdatum: Issue date:	2026-05-20																									
Stellung / Position:	Senior Project Manager	Stellung / Position:	Senior Project Manager																									
Sonstiges / Other:																												
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged																										
<table><tr><td>* Legende:</td><td>1 = sehr gut</td><td>2 = gut</td><td>3 = befriedigend</td><td>4 = ausreichend</td><td>5 = mangelhaft</td></tr><tr><td></td><td>P(ass) = entspricht o.g. Prüfgrundlage(n)</td><td>F(ail) = entspricht nicht o.g. Prüfgrundlage(n)</td><td>N/A = nicht anwendbar</td><td>N/T = nicht getestet</td><td></td></tr><tr><td>* Legend:</td><td>1 = very good</td><td>2 = good</td><td>3 = satisfactory</td><td>4 = sufficient</td><td>5 = poor</td></tr><tr><td></td><td>P(ass) = passed a.m. test specification(s)</td><td>F(ail) = failed a.m. test specification(s)</td><td>N/A = not applicable</td><td>N/T = not tested</td><td></td></tr></table>					* Legende:	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhaft		P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet		* Legend:	1 = very good	2 = good	3 = satisfactory	4 = sufficient	5 = poor		P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested	
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Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>																												

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Anmerkungen
Remarks

- | | |
|---|--|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p> |
| 2 | <p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: go.tuv.com/digital-signature</p> <p><i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: go.tuv.com/digital-signature</i></p> |
| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i>
<i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p> |

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TEST SUMMARY

Report Section	Test Item	Result
5.1	Frequency Tolerance	Pass
5.2	Occupied Bandwidth	Pass
5.3	Spurious Emissions of Transmitter	Pass
5.4	Antenna Power	Pass
5.5	Spurious Emissions of Receiver	Pass
5.6	Interference Prevention Function	Pass

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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HISTORY OF THIS TEST REPORT

Revision	Description	Date Issued
R01	Original Release	2026-05-20

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A - Test Result of Conducted

Appendix EP - Photographs of EUT

Applied Standard and Test Levels

Radio
ARIB STD-T73 (V3.0), MIC notice 88 Appendix 22-16 Article 2-1-8 of the Certification Ordinance

1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.

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2. Test Sites

2.1 Test Laboratory

TÜV Rheinland Taiwan Ltd. Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.
Taipei City 105
Taiwan (R.O.C.)

2.2 Test Facility

TÜV Rheinland Taiwan Ltd. Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,
New Taipei City 244
Taiwan (R.O.C.)

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2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95% level of confidence.

Emission Measurement Uncertainty

Parameter	Uncertainty
Occupied Bandwidth	$\pm 5 \%$
RF power, conducted	$\pm 1.5 \text{ dB}$
Radiated Emission	$\pm 2.83 \text{ dB}$
Temperature	$\pm 1 \text{ }^{\circ}\text{C}$
Humidity	$\pm 5 \%$
DC and low frequency voltages	$\pm 3 \%$

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3. General Product Information

3.1 Product Function and Intended Use

The EUT is a ScreenBar Max. It contains a 24GHz compatible module enabling the user to communicate data through a Wireless interface.

For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details and Ratings

Technical Specification of EUT

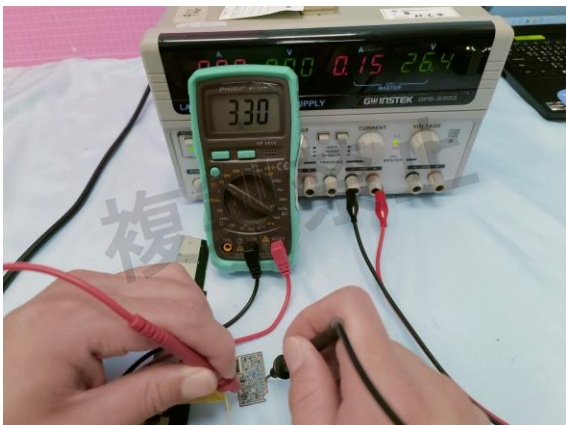
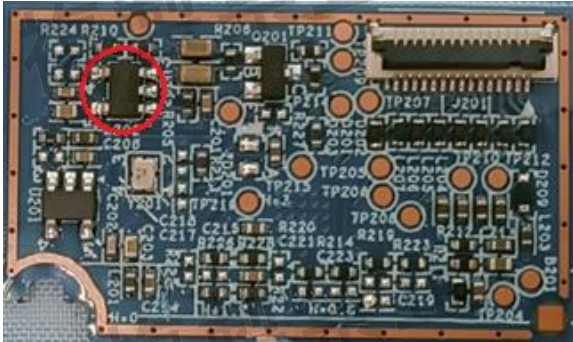
Item	EUT information
Kind of Equipment/Test Item	ScreenBar Max
Type Identification	CR25
Trademark	BenQ
Operating Frequency	24.05 ~ 24.25 GHz
Operation Voltage	Input: 100-240V AC, 50-60 Hz Output: 24Vdc
Modulation	FMCW
Rated RF Power Density (W)	0.00075
Conducted RF Output Power Density (mW)	0.75
Antenna Type	Antenna in package
Antenna Gain	2 dBi
Accessory Device	Refer to 4.3

3.3 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.4 Power Supply Voltage Fluctuation Test

Voltage Fluctuation Test				
DC in				
Input	DC 21.6V (-10%)	DC 24V (Nominal)	DC 26.4V (+10%)	Voltage Variation
3.3 Vdc	3.3 Vdc	3.3 Vdc	3.3 Vdc	≤ 1%

VBAT	Measurement Point
	

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4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible conducted level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Setup for testing: Test samples are provided with modify firmware which makes it possible to continue transmit when power on the device.

It was used to enable the operation modes listed as below.

Test Software	None.
---------------	-------

The samples were used as follows:
A004245026-023, 025

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Frequency Tolerance	23.3-24.2 °C	56-61 %	Peter Chiou
Occupied Bandwidth	23.3-24.2 °C	56-61 %	Peter Chiou
Spurious Emissions of Transmitter	23.3-24.2 °C	56-61 %	Peter Chiou
Antenna Power	23.3-24.2 °C	56-61 %	Peter Chiou
Spurious Emissions of Receiver	23.3-24.2 °C	56-61 %	Peter Chiou

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4.3 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

Accessory of EUT

No.	Product	Brand	Model	Description
-	Wall-mounted Lamp with Desk Clamp	BenQ	CR25	optional accessories
-	Wall-mounted Lamp with Base	BenQ	CR25	-

Support Unit

Support Unit					
No	Description	Brand	Model	S/N	Remark
-	LED Driver	BenQ	1A98-XCDD	-	-

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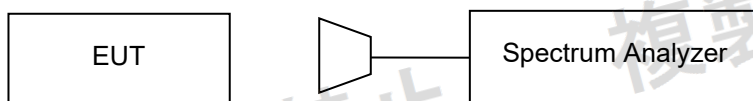
5. Test Results

5.1 Frequency Tolerance Measurement

Limit 24.05 ~ 24.25 GHz

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Calibration Authority	Calibration Method	Test Date	
								From	Until
Spectrum Analyzer	R & S	FSV40	101507	2025/07/03	2026/07/02	Industrial Technology Research Institute	c	2026/04/29	2026/05/14
AMP	R & S	100497	SCU40A	2025/06/05	2026/06/04	Industrial Technology Research Institute	c	2026/04/29	2026/05/14
AMP	EMEC	EM330	060904	2025/12/24	2026/12/23	Industrial Technology Research Institute	c	2026/04/29	2026/05/14
AMP	EMEC	EM01G18 GA	060905	2025/12/24	2026/12/23	Industrial Technology Research Institute	c	2026/04/29	2026/05/14
Signal Analyzer	Agilent	N9010A	MY52221 334	2026/02/24	2027/02/23	Industrial Technology Research Institute	c	2026/04/29	2026/05/14

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Note: Calibration Method

- a) Calibration conducted by the National Institute of Information and Communications Technology(NICT) or a designated calibration agency under Article 102-18 paragraph (1) of the Radio Law.
- b) Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
- c) Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
- d) Calibration conducted by using other equipment that listed above from a) to c).

Test Result

Please refer to Appendix A.

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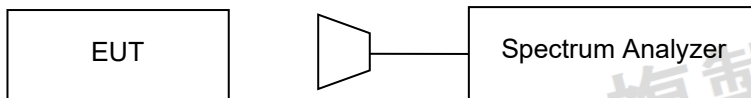
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5.2 Occupied Bandwidth Measurement

Limit < 200 MHz

Kind of Test Site Shielded room

Test Setup



Test Instruments

Refer to 5.1 Test Instruments

Test Result

Please refer to Appendix A.

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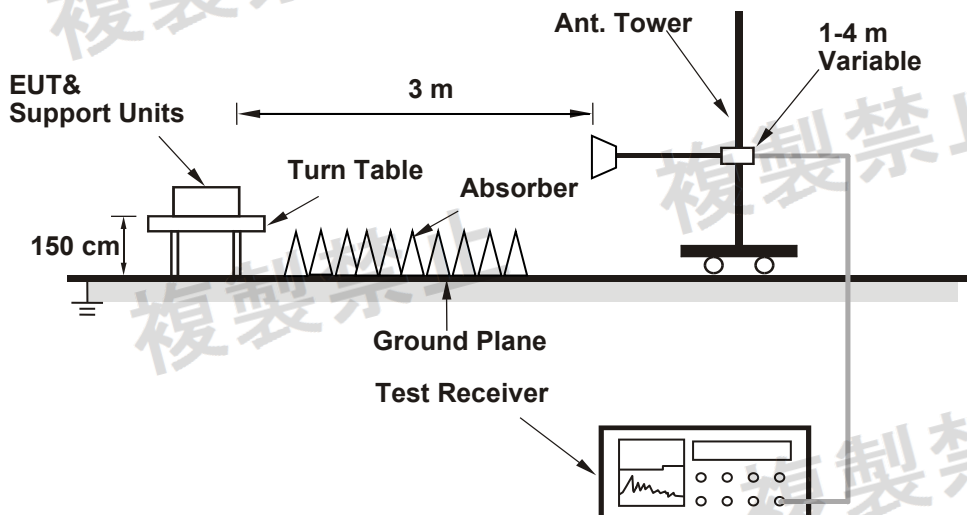
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5.3 Spurious Emissions for Transmitter Measurement

Limit 2.5 μW (-26 dBm)

Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup



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Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Bilog Antenna	SCHWARZBECK	VULB-9168	00950	2025/05/15	2026/05/14	2026/05/13	2026/05/14
Horn Antenna	ETS-Lindgren	3117	00218927	2026/02/04	2027/02/03	2026/05/13	2026/05/14
Horn Antenna	SCHWARZBECK	BBHA 9170	00896	2026/01/16	2027/01/15	2026/05/13	2026/05/14
Signal Analyzer	R&S	FSV40	101507	2025/07/03	2026/07/02	2026/05/13	2026/05/14
AMP	R&S	SCU40A	100497	2025/06/05	2026/06/04	2026/05/13	2026/05/14
AMP	EMEC	EM330	060904	2025/12/24	2026/12/23	2026/05/13	2026/05/14
AMP	EMEC	EM01G18G A	060905	2025/12/24	2026/12/23	2026/05/13	2026/05/14
Horn Antenna	OML	M19RH	16070501	2023/08/21	2026/08/20	2026/05/13	2026/05/14
Harmonic Mixer	OML	M19HWDX	160118-1	2023/08/23	2026/08/22	2026/05/13	2026/05/14
Signal Analyzer	Agilent	N9010A	MY52221334	2026/02/24	2027/02/23	2026/05/13	2026/05/14
Test Software	Audix E3	15914a_20191106 tuv	RK-002131	N/A	N/A	2026/05/13	2026/05/14
Microwave Cable	Timesmicrowave	HF-290	W11.01	2025/10/16	2026/10/15	2026/05/13	2026/05/14
Microwave Cable	Timesmicrowave	HF-290	W11.02	2025/10/16	2026/10/15	2026/05/13	2026/05/14
Microwave Cable	Timesmicrowave	HF-290	W12.01	2025/10/16	2026/10/15	2026/05/13	2026/05/14
Microwave Cable	Timesmicrowave	HF-290	W12.02	2025/10/16	2026/10/15	2026/05/13	2026/05/14

Test Result

Please refer to Appendix A.

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5.4 Antenna Power Measurement

Limit

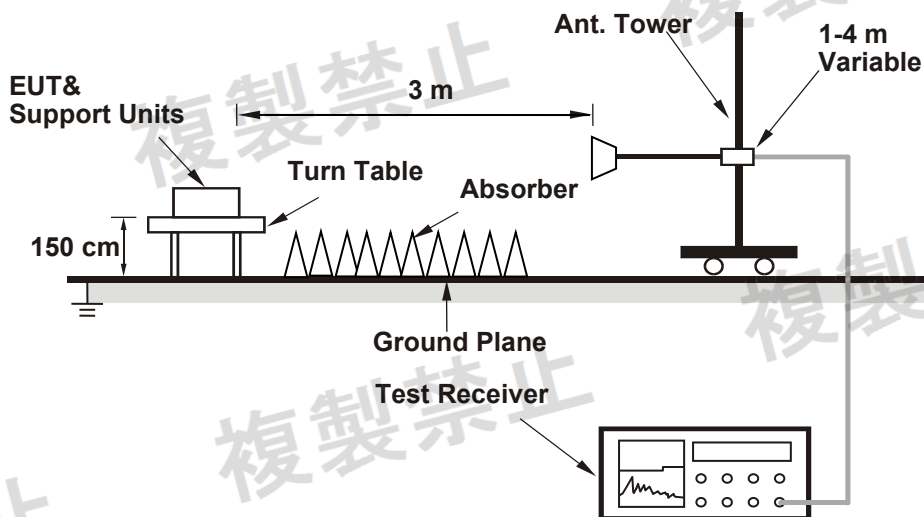
The antenna power shall be 0.02 W or less.

Tolerance of antenna power shall be within -50% ~ +50%.

EIRP shall be less than 37dBm and antenna gain shall be less than 24dBi.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Refer to 5.1 Test Instruments

Test Result

Please refer to Appendix A.

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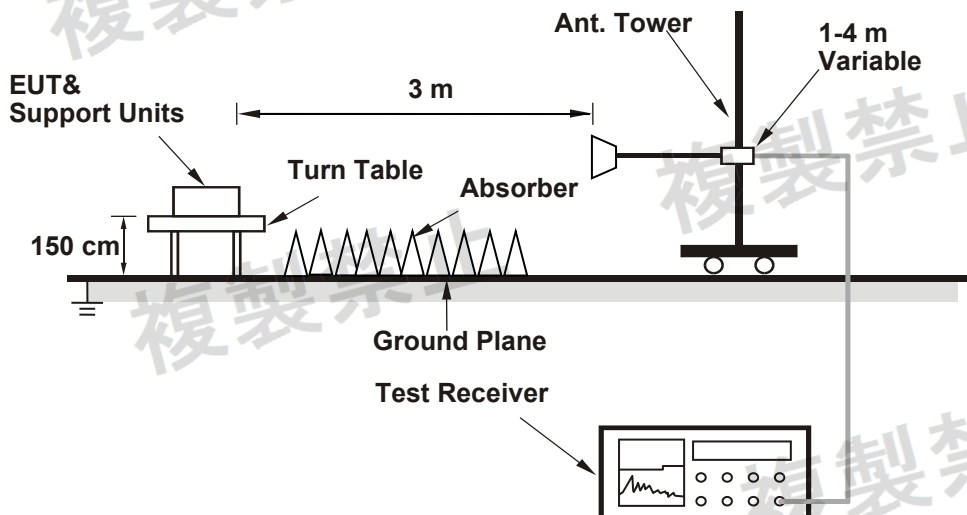
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5.5 Spurious Emissions for Receiver Measurement

Limit 2.5 μW (-26 dBm)

Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup



Test Instruments

Refer to 5.3 Test Instruments

Test Result

Please refer to Appendix A.

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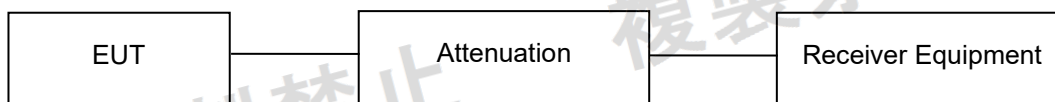
5.6 Interference Prevention Function

Limit

Radio equipment used mainly on the same premises and automatically transmits or receives identification code.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Refer to 5.1 Test Instruments

Test Result

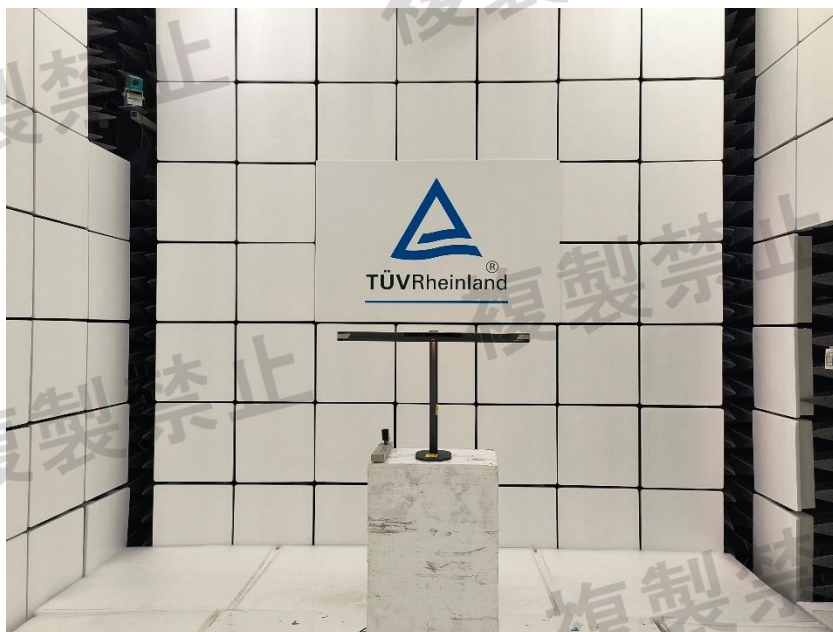
24 GHz	Test Result
	Pass

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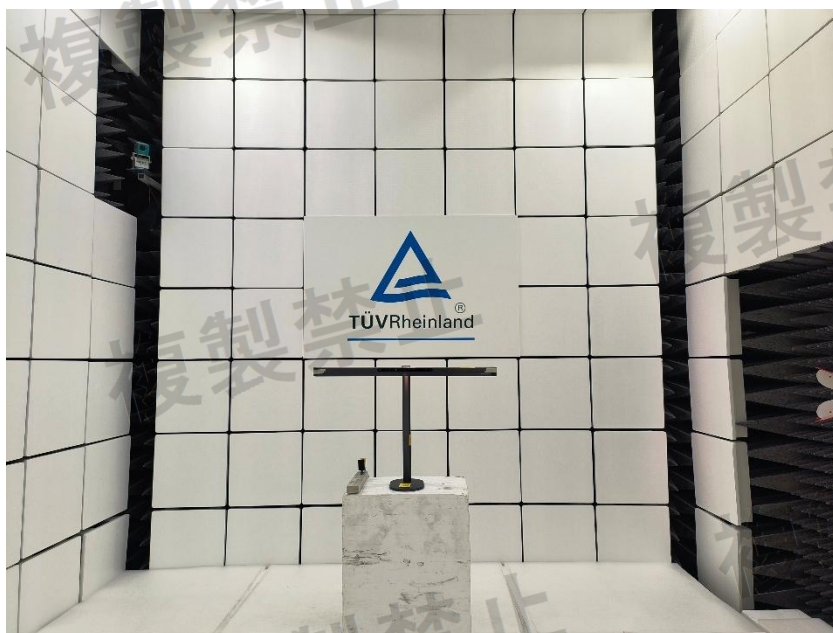
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6. Photographs of the Test Setup

Set-up for Spurious Emissions (Front View 1)



Set-up for Spurious Emissions (Front View 2)

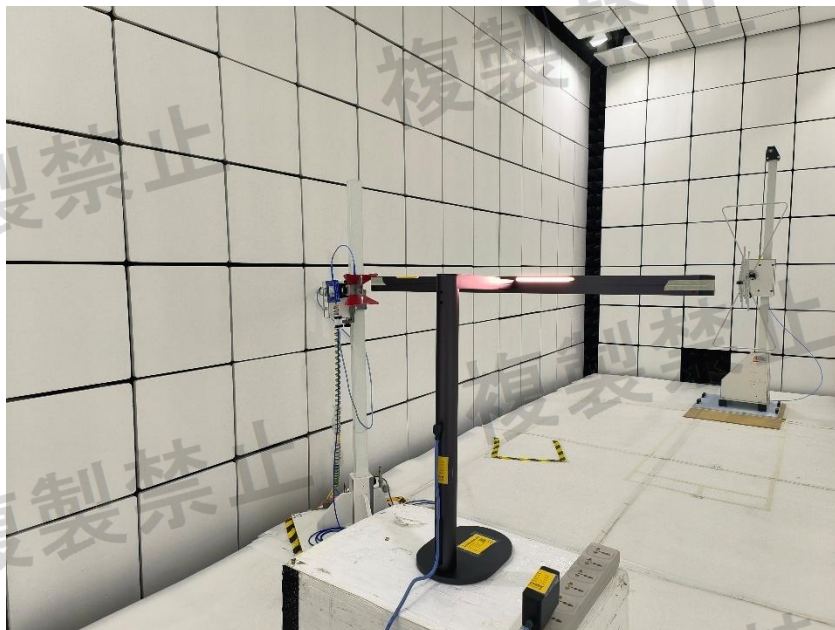


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Set-up for Spurious Emissions (Back View 1)



Set-up for Spurious Emissions (Back View 2)



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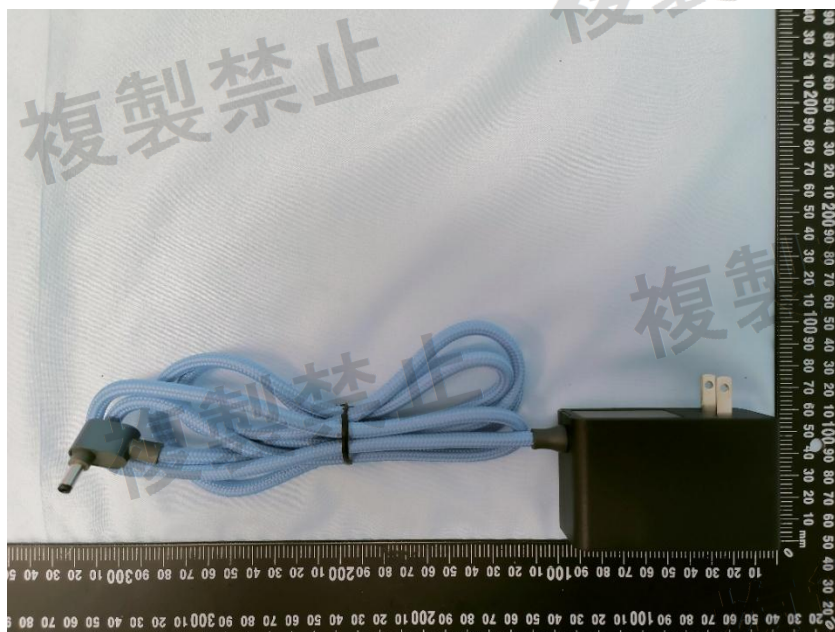
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Set-up for Spurious Emissions (Back View 3)



Support Unit – LED Driver



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