

TEST REPORT

Application No.: SZCR2504001486TL
Applicant: Beijing Xiaomi Electronics Co., Ltd.
Address of Applicant: Room 802, 8 Floor, Building 5, No.15, Kechuang Ten Street, Beijing Economic and Technological Development Zone, Beijing, China.
Manufacturer: Beijing Xiaomi Electronics Co., Ltd.
Address of Manufacturer: Room 802, 8 Floor, Building 5, No.15, Kechuang Ten Street, Beijing Economic and Technological Development Zone, Beijing, China.
Equipment Under Test (EUT):
EUT Name: Xiaomi Wi-Fi Range Extender AX1500
Model No.: RN12
Standard(s) : EN 301 549 V3.2.1 (2021-03)
 EN 301 549 V4.1.1c (2025-04) - V.0.0.13
Date of Receipt: 2025-04-14
Date of Test: 2025-04-16 to 2025-06-12
Date of Issue: 2025-06-16

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager



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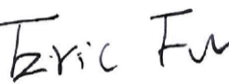
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-06-16		Original

Authorized for issue by:				
				
		Ryan Yang/Project Engineer		
				
		Eric Fu/Reviewer		



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2 Test Summary

Item	Standard	Method	Result
Generic requirements	EN 301 549 V4.1.1c (2025-04) - V.0.0.13 Clause 5 Generic requirements	EN 301 549 V4.1.1c (2025-04) - V.0.0.13	Pass
Hardware	EN 301 549 V4.1.1c (2025-04) - V.0.0.13 Clause 8 Hardware		Pass
Software	EN 301 549 V4.1.1c (2025-04) - V.0.0.13 Clause 11 Software	EN 301 549 V4.1.1c (2025-04) - V.0.0.13 WCAG 2.2	Pass

Remark:

- The test content of EN 301 549 V4.1.1c can cover EN 301 549 V3.2.1. Therefore, only all the test cases of EN 301 549 V4.1.1c are listed here to simultaneously prove that the product complies with both the content of EN 301 549 V4.1.1c and EN 301 549 V3.2.1.
- Web Content Accessibility Guidelines (WCAG): Web Content Accessibility Guidelines (WCAG) 2.1 covers a wide range of recommendations for making Web content more accessible. WCAG 2.2 extends Web Content Accessibility Guidelines 2.1 (WCAG2.1), which was published as a W3C Recommendation June 2018.



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4 General Information

4.1 Details of E.U.T.

Description	EUT situation
Firmware	1.0.64, 1.XXX.XXX When incorporating new version features, the value of x ranges from 0 to 999. Changes to x do not affect accessibility features. The manufacturer will release new version updates after-market launch to fix bugs or enhance functions. and all released versions do not alter accessibility features.
Plugin version	V5, VX When incorporating new version features, the value of x ranges from 0 to 999.Changes to x do not affect accessibility features. The manufacturer will release new version updates after-market launch to fix bugs or enhance functions. and all released versions do not alter accessibility features.
App Version (Android)	Xiaomi Home_V10.8.501.12799-64-DEV-Trial version, Xiaomi Home_V10.X.XX When incorporating new version features, the value of x ranges from 0 to 999. Changes to x do not affect accessibility features. The manufacturer will release new version updates after-market launch to fix bugs or enhance functions. and all released versions do not alter accessibility features.
App Version (iOS)	Xiaomi Home_V10.8.100-build10.8.100.11995, Xiaomi Home_V10.X.XX When incorporating new version features, the value of x ranges from 0 to 999. Changes to x do not affect accessibility features. The manufacturer will release new version updates after-market launch to fix bugs or enhance functions. and all released versions do not alter accessibility features.
Product is a fixed device	No
Product has Claiming visual distance	No
Product has screen reading function	No
Product has non-web software that supports screen reading function	No
The transaction process supports automatic detection of erroneous inputs	No
Product has RTT function	No
Electronic format product files are provided with the product	No



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Product has two-way video communication function	No
Operational space/functional range for consumer	Only the operation of setting in the software interface is supported.

Remark:

The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Support Unit

Equipment	Manufacturer	Model No.
iPhone 16 pro	Apple	MYLU3CH/A
Smartphone	Xiaomi	/
Keyboard	Lenovo	KB1021
Mouse	A4tech	WM-100 USE

4.3 Measurement Uncertainty

None

4.4 Test Location

All tests were performed at:

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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



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4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively..

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



5 Equipment List

None.



6 Test Results

6.1 Generic Requirements

Applies to EN 301 549 Criteria			
Test Item		Procedure	Result
Clause 5.1 Closed functionality			
5.1.2 General	5.1.2.2 Assistive technology	1. Determine the functionality of the ICT that is closed. 2. Check that the tests C.5.1.3 to C.5.1.6 can be carried out without the attachment or installation of any assistive technology except personal headsets or inductive loops.	Pass
5.1.3 Non-visual access	5.1.3.1 Audio output of visual information	1. Determine the functionality of the ICT that is closed. 2. Check that they are all operable using audio output access.	Not applicable
	5.1.3.2 Auditory output delivery including speech	1. Check that the auditory output is delivered by a mechanism included in or provided with the ICT. 2. Check that the auditory output is delivered by a personal headset that can be connected through a 3,5 mm audio jack without requiring the use of vision.	Not applicable
	5.1.3.4 Speech output user control	1. Check that the speech output is capable of being interrupted when requested by the user. 2. Check that the speech output is capable of being repeated when requested by the user.	Not applicable
	5.1.3.5 Speech output automatic interruption	1. Determine the closed functions of the ICT. 2. Check that the speech output for each single function is interrupted on a user action. 3. Check that the speech output for each single function is interrupted when new speech output begins.	Not applicable
	5.1.3.6 Speech output for non-text content	1. Check that speech output is provided as an alternative for non-text content. 2. Check that the non-text content is not pure decoration. 3. Check that the non-text content is not used only for visual formatting. 4. Check that the speech output follows the guidance for "text alternative" described in WCAG 2.1 2.2 Success Criterion 1.1.1.	Not applicable
	5.1.3.7 Speech output for video information	1. Check that the speech output presents equivalent information for the pre-recorded video content.	Not applicable



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	5.1.3.8 Masked entry	1. Check that the auditory output is not a spoken version of the characters entered. 2. Check that the auditory output is known to be delivered only to a mechanism for private listening.	Not applicable
	5.1.3.9 Private access to personal data	1. Check that the auditory output is only delivered through a mechanism for private listening. 2. Check that the mechanism for private listening can be connected without requiring the use of vision. 3. Check that the auditory output is delivered through all user-selectable mechanisms.	Not applicable
	5.1.3.10 Non-interfering audio output	1. Check that the interfering audible output lasts no longer than three seconds.	Not applicable
	5.1.3.11 Private listening volume	1. Check that there is at least one non-visual mode of operation for controlling the volume.	Not applicable
	5.1.3.12 Speaker volume	1. Check that a non-visual incremental volume control is provided. 2. Check that output amplification up to a level of at least 65 dBA (-29 dBPaA) is available.	Not applicable
	5.1.3.13 Volume reset	1. Check that a function is provided to automatically reset the volume to be at a level of 65 dBA or less after every use.	Not applicable
	5.1.3.14 Spoken languages	1. Check that the speech output is in the same human language of the displayed content provided.	Not applicable
	5.1.3.15 Non-visual error identification	1. Check that speech output identifies the item that is in error. 2. Check that the speech output describes the item that is in error.	Not applicable
	5.1.3.16 Receipts, tickets and transactional outputs	1. Check that speech output is provided which includes all information necessary to complete or verify the transaction.	Not applicable
5.1.4 Functionality closed to text enlargement		1. Measure the height of a capital letter H. 2. Check that it subtends an angle of at least 0,7 degrees at the specified viewing distance.	Not applicable
5.1.5 Visual output for auditory information		1. Check that the visual information is equivalent to the pre-recorded auditory output.	Not applicable
5.1.6 Operation without keyboard interface	5.1.6.1 Closed functionality	1. Check that all functionality is operable without vision.	Pass
	5.1.6.2 Input focus	1. Check that it is possible to move the input focus away from that element using the same mechanism.	Not applicable
5.1.7 Access without speech		1. Check that the closed functions can be enabled by an alternative input mechanism that does not require speech.	Not applicable



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5.1.8 Identify input purpose (closed functionality)	1. For each input field that collects information about a user check that it serves a purpose identified in the Input Purposes for User Interface Components section of WCAG 2.2. 2. Check that there is auditory output that conforms to clause 5.1.3.2. 3. Check that the auditory output describes the input purpose.	Not applicable
Clause 5.2 Activation of accessibility features		
5.2 Activation of accessibility features	1. Check that it is possible to activate those accessibility features without relying on a method that does not support that need.	Not applicable
Clause 5.3 Biometrics		
5.3 Biometrics	Testing 1	1. Check that another means can be used for user identification. Not applicable
	Testing 2	1. Check that another means can be used for control of ICT. Not applicable
Clause 5.4 Preservation of accessibility information during conversion		
5.4 Preservation of accessibility information during conversion	1. Check that the non-proprietary information provided for accessibility is preserved when the ICT converts information or communication.	Not applicable
Clause 5.5 Control using tactilely discernible operable parts		
5.5 Control using tactilely discernible operable parts	1. Check that there is a mode of operation that allows all the functionality of the ICT that requires manual operation and control to be controlled without requiring vision using only tactilely discernible operable parts.	Pass
Clause 5.6 Locking or toggle controls		
5.6.1 Tactile or auditory status	1. Check that there is at least one mode of operation where the status of all locking or toggle controls can be determined through touch without operating the control. 2. Check that there is at least one mode of operation where the status of all locking or toggle controls can be determined through sound without operating the control.	Pass
5.6.2 Visual status	1. Check that there is at least one mode of operation where the status of all locking or toggle controls can be visually determined when the control is presented.	Pass

6.2 Hardware

Applies to EN 301 549 Criteria		
Test Item	Procedure	Result
Clause 8.1 General		
8.1.2 Standard connections	1. Check that one type of connection conforms to an industry standard non-proprietary format.	Pass



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		2. Check that one type of connection conforms to an industry standard non-proprietary format through the use of commercially available adapters.	
8.1.3 Colour		1. Check that an alternative form of visual coding is provided.	Pass*
Clause 8.4 Operable parts			
8.4.1 Numeric keys		1. Check that the number five key is tactilely distinct from the other keys of the keypad.	Not applicable
8.4.2 Operation of operable parts	8.4.2.2 Force of operation of operable parts	1. Check that an accessible alternative means of operation is provided that requires a force less than or equal to 22,2 N.	Not applicable
Note: The "Pass" results marked in this Clause are only applicable to the testing of the hardware that are related to the corresponding regulations.			

6.3 Software

Applies to EN 301 549 Criteria			
Test Item		Procedure	Result
Clause 11.1 Perceivable			
11.1.1 Text alternatives	11.1.1.1 Non-text content	1. Check that the functionality that is not closed does not fail WCAG 2.2 Success Criterion 1.1.1 Non-text Content.	Pass*
11.1.2 Time-based media	11.1.2.1 Audio-only and video-only (pre-recorded)	1. Check that functionality that is not closed does not fail WCAG 2.2 Success Criterion 1.2.1 Audio-only and Video-only (Prerecorded).	Not applicable
	11.1.2.2 Captions (pre-recorded)	1. Check that the software does not fail WCAG 2.2 Success Criterion 1.2.2 Captions (Prerecorded).	Not applicable
	11.1.2.3 Audio description or media alternative (pre-recorded)	1. Check that functionality that is not closed does not fail WCAG 2.2 Success Criterion 1.2.3 Audio Description or Media Alternative (Prerecorded).	Not applicable
	11.1.2.4 Captions (live)	1. Check that the software does not fail WCAG 2.2 Success Criterion 1.2.4 Captions (Live).	Not applicable
	11.1.2.5 Audio description (pre-recorded)	1. Check that the software does not fail WCAG 2.2 Success Criterion 1.2.5 Audio Description (Prerecorded).	Not applicable
11.1.3 Adaptable	11.1.3.1 Info and relationships	1. Check that the functionality that is not closed does not fail WCAG 2.2 Success Criterion 1.3.1 Info and Relationships.	Pass
	11.1.3.2 Meaningful sequence	1. Check that functionality that is not closed does not fail WCAG 2.2 Success Criterion 1.3.2 Meaningful Sequence.	Pass
	11.1.3.3 Sensory characteristics	1. Check that the software does not fail WCAG 2.2 Success Criterion 1.3.3 Sensory Characteristics.	Pass



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Applies to EN 301 549 Criteria			
Test Item		Procedure	Result
	11.1.3.4 Orientation	1. Check that the software does not fail WCAG 2.2 Success Criterion 1.3.4 Orientation.	Not applicable ¹⁾
	11.1.3.5 Identify input purpose	1. Check that the functionality that is not closed does not fail WCAG 2.2 Success Criterion 1.3.5 Identify Input Purpose.	Not applicable
11.1.4 Distinguishable	11.1.4.1 Use of colour	1. Check that the software does not fail WCAG 2.2 Success Criterion 1.4.1 Use of Colour.	Pass
	11.1.4.2 Audio control	1. Check that the software does not fail WCAG 2.2 Success Criterion 1.4.2 Audio control.	Not applicable
	11.1.4.3 Contrast (minimum)	1. Check that the software does not fail WCAG 2.2 Success Criterion 1.4.3 Contrast (Minimum).	Pass*
	11.1.4.4 Resize text	1. Check that the software does not fail WCAG 2.2 Success Criterion 1.4.4 Resize text.	Pass*
	11.1.4.5 Images of text	1. Check that the functionality that is not closed does not fail WCAG 2.2 Success Criterion 1.4.5 Images of Text.	Pass
	11.1.4.10 Reflow	1. Check that the software does not fail WCAG 2.2 Success Criterion 1.4.10 Reflow.	Not applicable
	11.1.4.11 Non-text contrast	1. Check that the software does not fail the Success Criterion WCAG 2.2 Success Criterion 1.4.11 Non-text Contrast.	Pass*
	11.1.4.12 Text spacing	1. Check that the software does not fail the Success Criterion WCAG 2.2 Success Criterion 1.4.12 Text spacing.	Not applicable
	11.1.4.13 Content on hover or focus	1. Check that the software does not fail WCAG 2.2 Success Criterion 1.4.13 Content on hover or focus.	Not applicable
Clause 11.2 Operable			
11.2.1 Keyboard accessible	11.2.1.1 Keyboard	1. Check that the software does not fail WCAG 2.2 Success Criterion 2.1.1 Keyboard.	Pass
	11.2.1.2 No keyboard trap	1. Check that the software does not fail WCAG 2.2 Success Criterion 2.1.2 No keyboard trap.	Pass
	11.2.1.4 Character key shortcuts	1. Check that the software does not fail WCAG 2.2 Success Criterion 2.1.4 Character Key Shortcuts.	Not applicable
11.2.2 Enough time	11.2.2.1 Timing adjustable	1. Check that the software does not fail WCAG 2.2 Success Criterion 2.2.1 Timing adjustable.	Not applicable
	11.2.2.2 Pause, stop, hide	1. Check that the software does not fail WCAG 2.2 Success Criterion 2.2.2 Pause, stop, hide.	Not applicable
11.2.3 Seizures and physical reactions	11.2.3.1 Three flashes or below threshold	1. Check that the software does not fail WCAG 2.2 Success Criterion 2.3.1 Three flashes or below threshold.	Pass
11.2.4 Navigable	11.2.4.3 Focus order	1. Check that the software does not fail WCAG	Pass



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Applies to EN 301 549 Criteria			
Test Item		Procedure	Result
		2.2 Success Criterion 2.4.3 Focus order.	
	11.2.4.4 Link purpose (in context)	1. Check that the software does not fail WCAG 2.2 Success Criterion 2.4.4 Link Purpose (In Context).	Not applicable
	11.2.4.6 Headings and labels	1. Check that the software does not fail WCAG 2.2 Success Criterion 2.4.6 Headings and Labels.	Pass
	11.2.4.7 Focus visible	1. Check that the software does not fail WCAG 2.2 Success Criterion 2.4.7 Focus Visible.	Pass
	11.2.4.11 Focus not obscured (minimum)	1. Check that the software does not fail WCAG 2.2 Success Criterion 2.4.11 Focus not obscured (minimum).	Pass
11.2.5 Input modalities	11.2.5.1 Pointer gestures	1. Check that the software does not fail WCAG 2.2 Success Criterion 2.5.1 Pointer gestures.	Not applicable
	11.2.5.2 Pointer cancellation	1. Check that the software does not fail WCAG 2.2 Success Criterion 2.5.2 Pointer cancellation.	Pass
	11.2.5.3 Label in name	1. Check that the software does not fail WCAG 2.2 Success Criterion 2.5.3 Label in Name.	Pass
	11.2.5.4 Motion actuation	1. Check that the software does not fail WCAG 2.2 Success Criterion 2.5.4 Motion Actuation.	Not applicable
	11.2.5.7 Dragging movements	1. Check that the software does not fail WCAG 2.2 Success Criterion 2.5.7 Dragging movements.	Not applicable
	11.2.5.8 Target size (minimum)	1. Check that the software does not fail WCAG 2.2 Success Criterion 2.5.8 Target size. (minimum).	Pass
Clause 11.3 Understandable			
11.3.1 Readable	11.3.1.1 Language of software	1. Check that the software does not fail WCAG 2.2 Success Criterion 3.1.1 Language of software.	Pass
11.3.2 Predictable	11.3.2.1 On focus	1. Check that the software does not fail WCAG 2.2 Success Criterion 3.2.1 On Focus.	Pass
	11.3.2.2 On input	1. Check that the software does not fail WCAG 2.2 Success Criterion 3.2.2 On Input.	Pass
	11.3.2.4 Consistent identification	1. Check that components that have the same functionality within the non-web software are identified consistently. 2. Where inconsistent identification of components is detected, check that this is because the inconsistency is essential to the function of the software.	Pass
11.3.3 Input assistance	11.3.3.1 Error identification	1. Check that the software does not fail WCAG 2.2 Success Criterion 3.3.1 Error Identification.	Not applicable
	11.3.3.2 Labels or instructions	1. Check that the software does not fail WCAG 2.2 Success Criterion 3.3.2 Labels or Instructions.	Pass



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Applies to EN 301 549 Criteria			
Test Item		Procedure	Result
	11.3.3.3 Error suggestion	1. Check that the software does not fail WCAG 2.2 Success Criterion 3.3.3 Error Suggestion.	Not applicable
	11.3.3.4 Error prevention (legal, financial, data)	1. Check that the software does not fail WCAG 2.2 Success Criterion 3.3.4 Error prevention (legal, financial, data).	Not applicable
	11.3.3.7 Redundant entry	1. Check that the software does not fail WCAG 2.2 Success Criterion 3.3.7 Redundant Entry.	Not applicable
	11.3.3.8 Accessible authentication (minimum)	1. Check that the software does not fail WCAG 2.2 Success Criterion 3.3.8 Accessible Authentication (Minimum).	Not applicable
Clause 11.4 Robust			
11.4.1 Compatible	11.4.1.2 Name, role, value	1. Check that the software does not fail WCAG 2.2 Success Criterion 4.1.2 Name, role, value.	Pass
	11.4.1.3 Status messages	1. Check that the software does not fail WCAG 2.2 Success Criterion 4.1.3 Status messages.	Pass
Clause 11.5 Interoperability with assistive technology			
11.5.1 Closed functionality		1. Check that the closed functionality conforms to clause 5.1.	Pass
Clause 11.6 Documented accessibility usage			
11.6.1 User control of accessibility features		1. Check that sufficient modes of operation exists where user control over platform features, that are defined in the platform documentation as accessibility features intended for users, is possible.	Pass*
11.6.2 No disruption of accessibility features		1. Check if software that provides a user interface disrupts normal operation of platform accessibility features. 2. Check if the disruption was specifically requested or confirmed by the user.	Pass
Clause 11.7 User preferences			
11.7 User preferences		1. Check that the software provides a mode of operation that follows the platform settings.	Pass
<p>¹⁾: According to the technical documentation, the app may not rotate to all orientations, as a specific display orientation is essential.</p> <p>*: Only tested the essential functional interfaces required for product configuration.</p> <p>Note: The "Pass" results marked in this Clause are only applicable to the testing of the Applications(APPs) that are related to the corresponding regulations.</p>			



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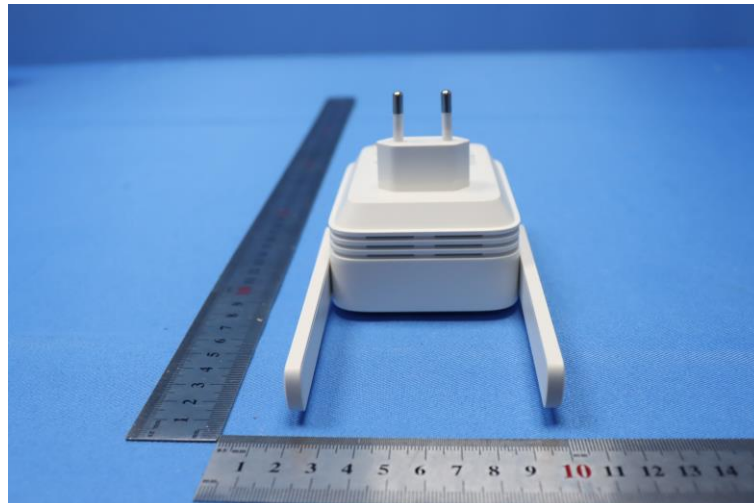
7 Test Setup Photo

None.



8 EUT Constructional Details (EUT Photos)







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- End of the Report -



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