

TELECOM TEST REPORT

Under:

- § 68.316 Hearing aid compatibility: Technical requirements.
§ 68.317 Hearing aid compatibility volume control: Technical standards

Applicant:

Fanvil Technology Co., LTD.

10/F Block A, Dualshine Global Science Innovation Center, Honglang North 2nd Road, Bao'an District,
Shenzhen, China

US: 3I1IPNANX303W

EUT: IP Phone

Model: X303W

December 2, 2022

Issue Date:

Extension Report

Report Type:



Test Engineer: Jason Xiong



Review By: Apollo Liu / Manager

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Report Revision History

Report #	Version	Description	Issued Date
KSZ2022112901X_FCC68	Rev.01	Initial issue of report	December 2, 2022

Application Type	Description	Original Report
☒ Permissive Changes_Existing Family/Modifications	☒ Family Model ☒ Without testing	KSZ2022091601_FCC68
The differences & modifications are declared by applicant. Please refer to the Difference Statement for more detailed description. After review, no additional tests need to be done. The result of compliance remains effective.		

Reference Documents

Document Type	Document No.	Issued by	Date
☒ Customer Declaration	Family Model Declaration Letter	Fanvil Technology Co., LTD.	2022-12-02
☐ Technical Documents	-	-	-

1. General Information

1.1 Notes

The test results of this report relate exclusively to the test item specified in 1.6. The Ke Mei Ou Laboratory does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the Ke Mei Ou Laboratory.

1.2 Testing Laboratory

Ke Mei Ou Laboratory Co., Ltd.		
FCC CAB	US Federal Communication Commission (FCC) EMC and Telecommunications (EC&T) Testing Designation Program (CAB)	CN1532
ISED CAB	Recognition of Telecommunications Testing - Innovation, Science, and Economic Development (ISED) Canada (CAB)	CN0060
NATA RTA	National Association of Testing Authorities, Australia (NATA) Recognized Testing Authority	AT-1532
OFCA RTA	Hong Kong Office of the Communications Authority (OFCA) Recognized Testing Authority	AT-1532
TRA	Type Approval & Authorization Department Telecommunication Regulatory Authority	AT-1532
The ANSI National Accreditation Board/ANAB ISO/IEC 17025 Accredited Lab for telecommunication standards. The Registration Number is AT-1532. The testing quality system meets with ISO/IEC-17025 requirements. This approval results are accepted by MRA of ILAC.  		
Email: kmo@kmolab.com Internet: www.kmolab.com		

1.3 Details of Applicant

Name	Fanvil Technology Co., LTD.
Address	10/F Block A, Dualshine Global Science Innovation Center, Honglang North 2nd Road, Bao'an District, Shenzhen, China

1.4 Application Details

Date of Receipt of Application	: November 29, 2022
Date of Receipt of Test Item	: November 29, 2022
Date of Assessment	: September 19, 2022 ~ October 14, 2022

1.5 Details of Factory

Name	Fanvil Technology Co., LTD.
Address	10/F Block A, Dualshine Global Science Innovation Center, Honglang North 2nd Road, Bao'an District, Shenzhen, China

1.6 Test Item

EUT Feature	
EUT Description:	IP Phone
Brand Name:	Fanvil
Basic Model:	X303W
Family Model:	X303G, X301G, X303P, X303, X301W, X301P, X301
HW Version:	V2.0
SW Version:	0.0.4.4
EUT Stage:	☒ Identical Prototype
Note: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.	
Additional Information	
Standard Product Specification	
EUT Operational Condition	☐ AC à ☐ Other
	☒ DC à ☒ External AC/DC adapter à ☐ From Battery ☒ PoE

1. 7 Applicable Standards

Applicable Standards	
According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:	
§ 68.316 Hearing aid compatibility: Technical requirements.	
§ 68.317 Hearing aid compatibility volume control: Technical standards	
Test suite:	FCC 68.316 and 68.317 (HAC & VC, TIA-4965)

1. 8 EUT Description

Specification of Accessory				
☑AC/DC Adapter1# (Charger)	Brand Name	TIANYIN	Model Name	TPA-97H050100UW01
	Power Rating	I/P:100-240Vac~50/60Hz 0.15A; O/P:5Vdc 1A		
☑AC/DC Adapter2# (Charger)	Brand Name	TIANYIN	Model Name	TPA-97H050060UW01
	Power Rating	I/P:100-240Vac~50/60Hz 0.15A; O/P:5Vdc 0.6A		

Overview
EUT is an entry-level WiFi color screen IP Phone. It use 320x240 2.4-inch color screen, and support HD voice, fast ethernet, 4 SIP accounts, Built-in 2.4G WiFi, 6-party conference etc rich functions. It provides the high-quality and convenient experience for users at an affordable price.

Used Audio Codec(s) for Testing			
NarrowBand		WideBand	
☐	G.711 a-law	☒	G.722
☒	G.711 u-law	☐	G.729.1
☐	G.726	-	-

2. Technical Test

2.1 Summary of Test Results

Test	Status
FCC 68.316 and 68.317 (HAC & VC, TIA-4965)	
§ 68.316 Hearing aid compatibility (analogue telephone)	
4.2 Axial field intensity	Not required
4.3 Radial field Intensity	Not required
4.4.1 Induced voltage frequency response (axial field intensity > -19 dB)	Not required
4.4.2 Induced voltage frequency response (axial field intensity (-19 to -22) dB)	Not required
§ 68.316 Hearing aid compatibility (digital (VoIP) telephone)	
4 Reference Input Level for 0 dBPa.	Pass
4.2 Axial field intensity (VoIP)	Pass
4.3 Radial field Intensity (VoIP)	Pass
4.4.1 Induced voltage frequency response (axial field intensity > -19 dB)(VoIP)	Pass
4.4.2 Induced voltage frequency response (axial field intensity (-19 to -22) dB)(VoIP)	Not required
§ 68.317 Hearing aid compatibility volume control according to ANSI/TIA-4965-2012	
§ 68.317 Hearing aid compatibility volume control -> Analog	
4.4.1.1 of ANSI/TIA-4965) Analog Terminals	Not required
§ 68.317 Hearing aid compatibility volume control -> VoIP	
4.4.1.1 of ANSI/TIA-4965) Digital Terminals (NB)	Pass
4.4.1.1 of ANSI/TIA-4965) Digital Terminals (WB)	Pass
4.4.1.2 of ANSI/TIA-4965) Requirements for terminals with conversational gain exceed 24 dB.	Not required

2. 2 Test Configuration

Support Unit				
Device	Manufacturer	Model # Serial #	FCC ID/ DoC	Cable
-	-	-	-	-

2. 3 Detailed test results

Test Results:	Refer to Appendix
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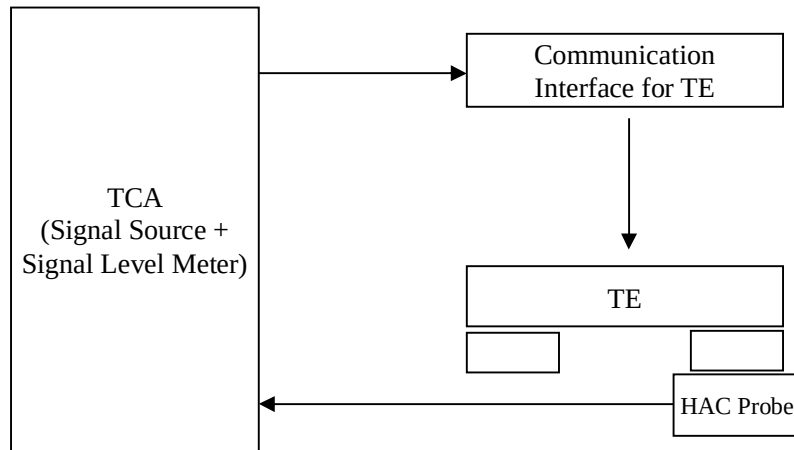
3. Label

Refer to Exhibits _Label & Location Info

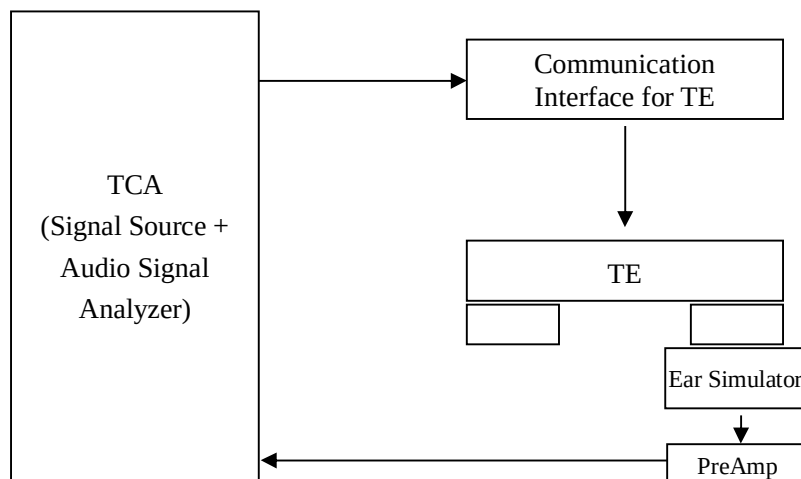
4. Test Setup

Refer to Exhibits _External Test Setup Photos

Test Setup Block Diagram
Axial/Radial field intensity and magnetic field intensity frequency response



Receiver volume control



5. Photographs - EUT

Refer to Exhibits _External Photos & Internal Photos

6. Test Equipment

Description	Model	S/N	Hardware Rev.	Software Rev.	Due Calibration
Telecom Conformance Analyzer	TCA 8200	KMO-SZ001	A5.01	2.4.79	6/20/2023
Head and Torso Simulator	Brüel & Kjær 4128-D	2766930	-	-	N/A
Handset Positioner	Brüel & Kjær 4606	KMO-SZ296	-	-	N/A
Right Ear Simulator	Brüel & Kjær 4158-C	2768228	-	-	6/20/2023
HAC Prober Pre-amplifier	HL HAC	87009	-	-	6/20/2023
HAC Probe Axial	CCL A-100	0353	-	-	6/20/2023
HAC Probe Radial	CCL R-100	0353	-	-	6/20/2023

-----End of Report -----

EUT top side view



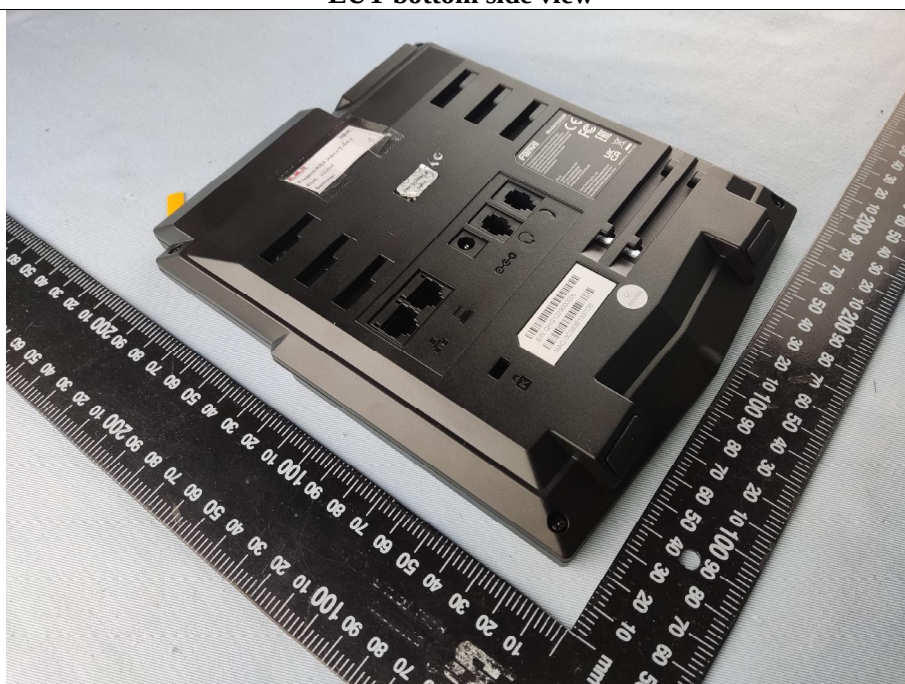
EUT top side view



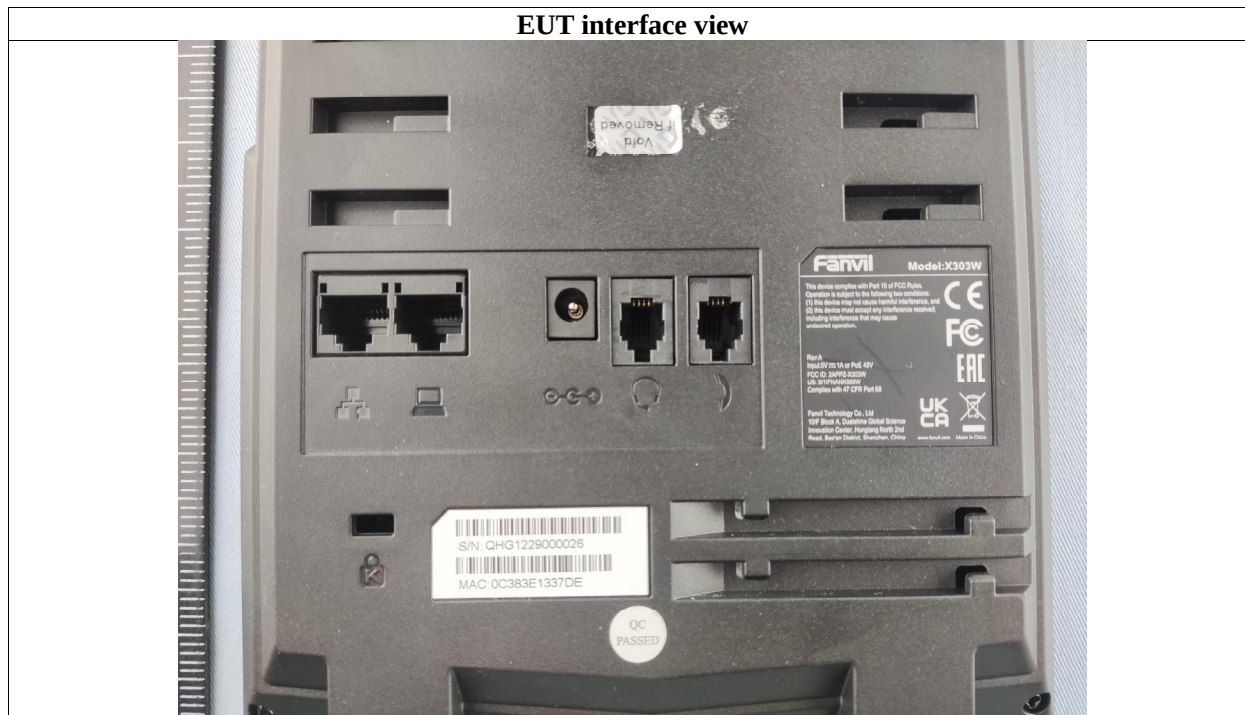
EUT bottom side view



EUT bottom side view



EUT interface view



1#Adapter top view



1#Adapter side view



2#Adapter top view



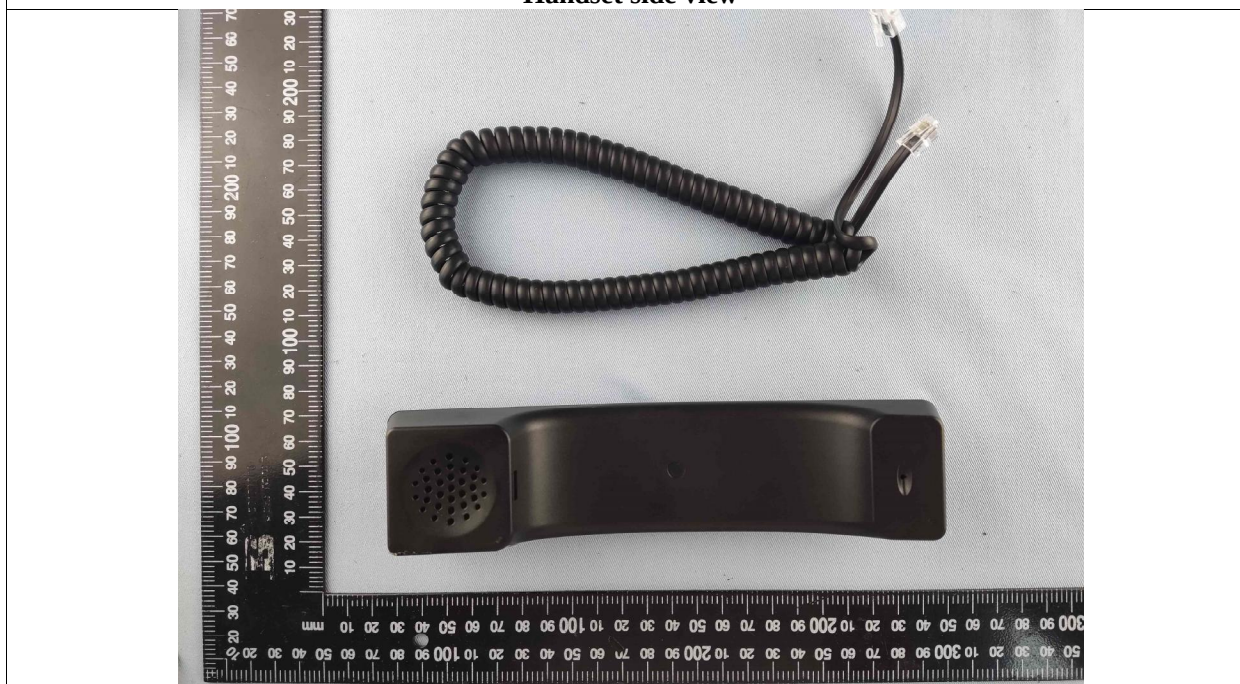
2#Adapter side view



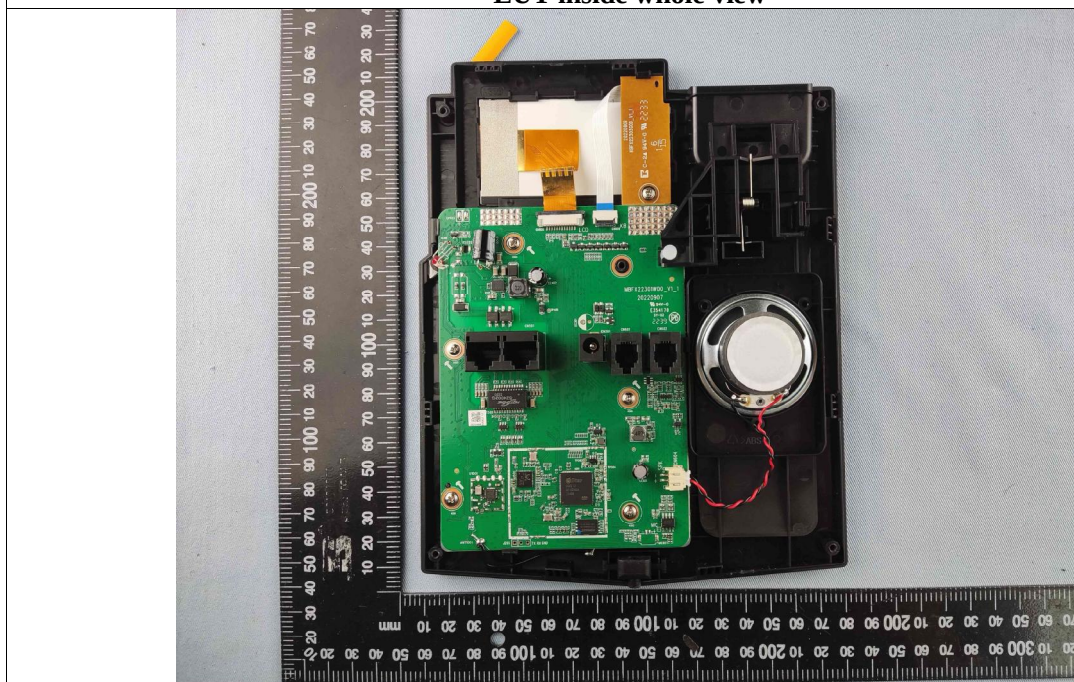
Handset top view



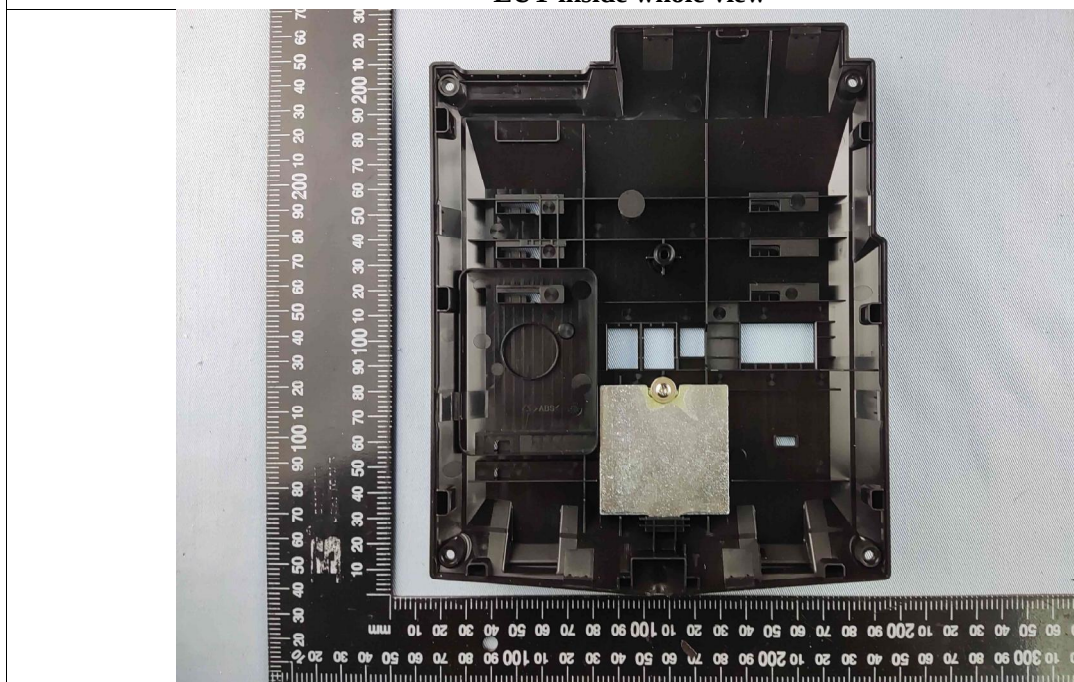
Handset side view



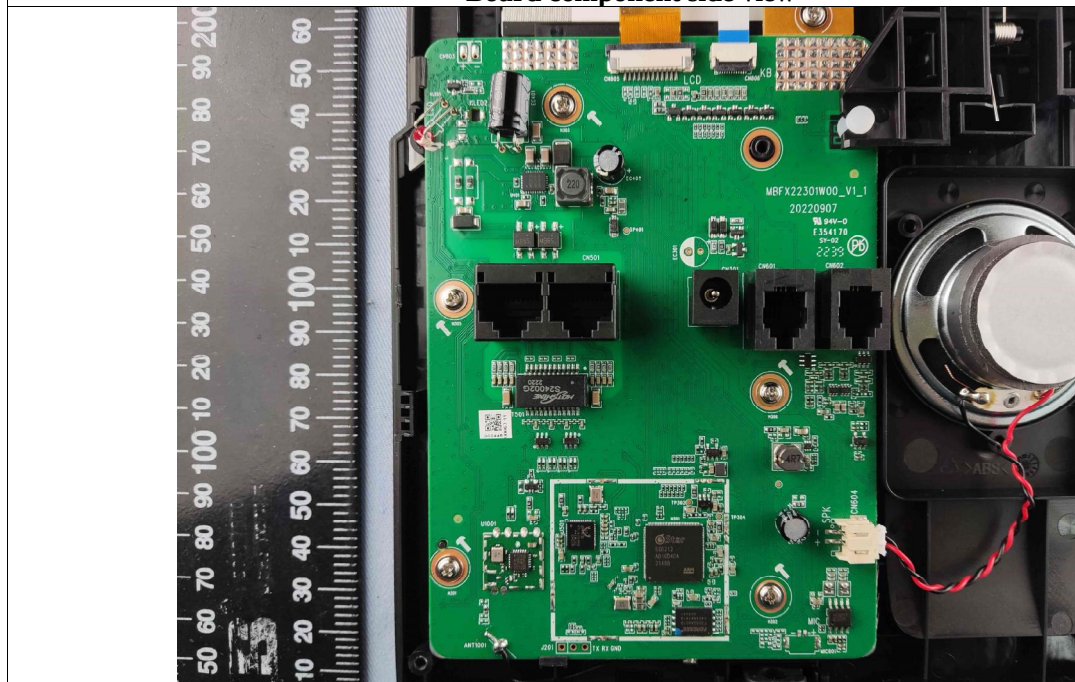
EUT inside whole view



EUT inside whole view



Board component side view



TELECOM TEST REPORT

Under:

- § 68.316 Hearing aid compatibility: Technical requirements.
§ 68.317 Hearing aid compatibility volume control: Technical standards

Applicant:

Fanvil Technology Co., LTD.

10/F Block A, Dualshine Global Science Innovation Center, Honglang North 2nd Road, Bao'an District,
Shenzhen, China

US: 3I1IPNANX303W

EUT: IP Phone

Model: X303W

October 17, 2022

Issue Date:

Original Report

Report Type:



Test Engineer: Jason Xiong



Review By: Apollo Liu / Manager

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Report Revision History

Report #	Version	Description	Issued Date
KSZ2022091601X_FCC68	Rev.01	Initial issue of report	October 17, 2022

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Email: kmo@kmolab.com Internet: www.kmolab.com		

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Name	Fanvil Technology Co., LTD.
Address	10/F Block A, Dualshine Global Science Innovation Center, Honglang North 2nd Road, Bao'an District, Shenzhen, China

1.4 Application Details

Date of Receipt of Application	: September 16, 2022
Date of Receipt of Test Item	: September 19, 2022
Date of Assessment	: September 19, 2022 ~ October 14, 2022

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Standard Product Specification	
EUT Operational Condition	☐ AC → ☐ Other ☒ DC → ☒ POE → ☐ From Battery ☐

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2. 2 Test Configuration

Support Unit				
Device	Manufacturer	Model # Serial #	FCC ID/ DoC	Cable
-	-	-	-	-

2.3 Detailed test results

Test Results:	Refer to Appendix
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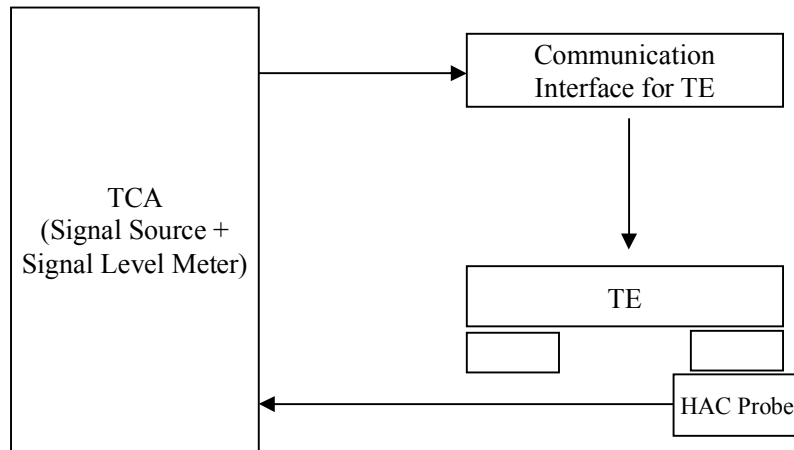
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Refer to Exhibits _Label & Location Info

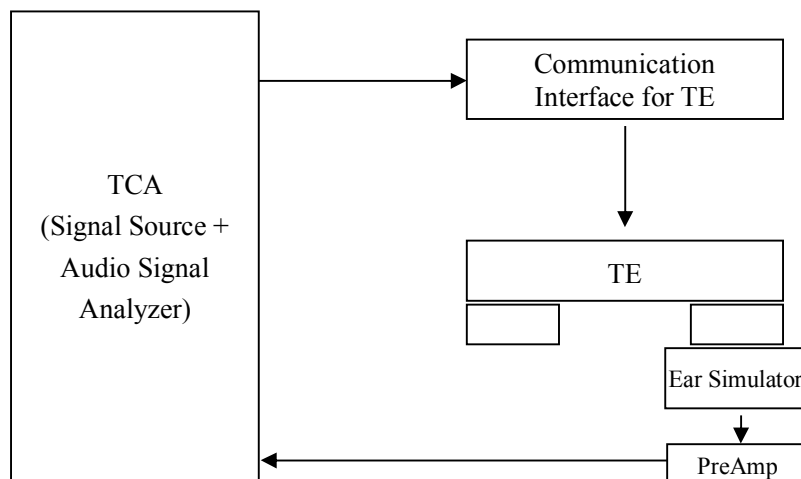
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Refer to Exhibits _External Test Setup Photos

Test Setup Block Diagram
Axial/Radial field intensity and magnetic field intensity frequency response



Receiver volume control



5. Photographs - EUT

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Handset Positioner	Brüel & Kjær 4606	KMO-SZ296	-	-	N/A
Right Ear Simulator	Brüel & Kjær 4158-C	2768228	-	-	6/20/2023
HAC Prober Pre-amplifier	HL HAC	87009	-	-	6/20/2023
HAC Probe Axial	CCL A-100	0353	-	-	6/20/2023
HAC Probe Radial	CCL R-100	0353	-	-	6/20/2023

-----End of Report -----



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E-mail: kmo@kmo-lab.com

Detailed test results

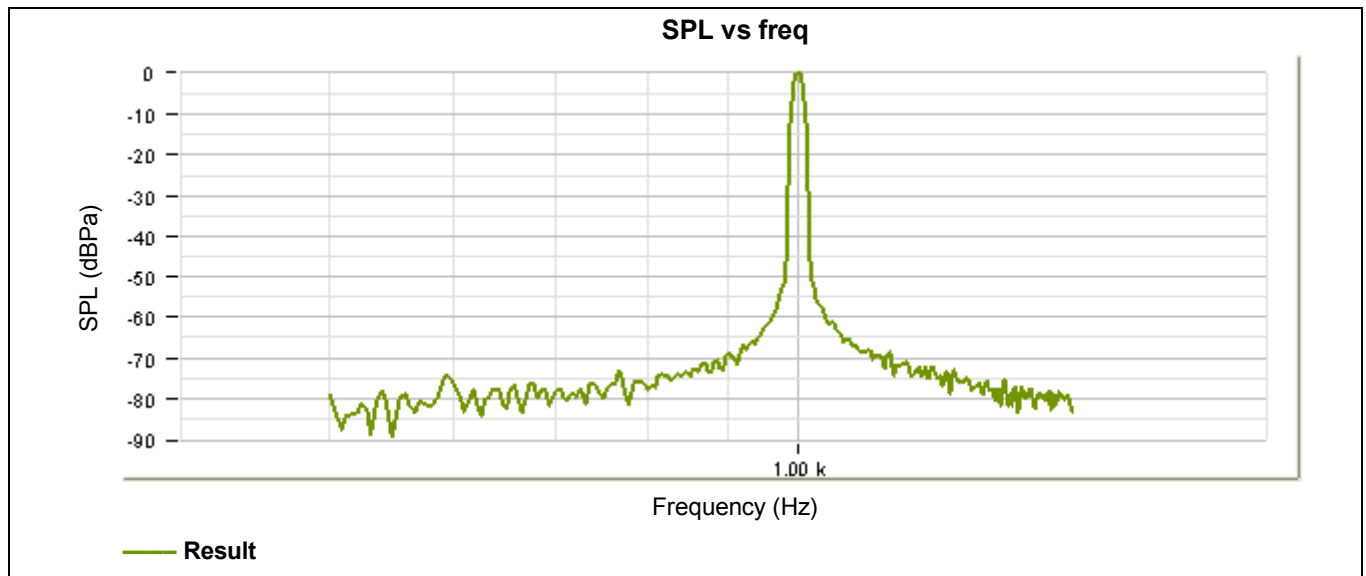
Test specification:	4 Reference Input Level for 0 dBPa.		
Test purpose:	To determine the level of the 1 kHz sine-wave signal applied at the digital interface which corresponds to a 0 dBPa sound pressure at the acoustic output of the handset.		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	10/13/2022 11:17:04 AM		
Temperature: 24.0 °C	Air Pressure: 1007 hPa	Relative Humidity: 47%	Mains Power Supply: POE
Product name: IP Phone	Product type:	Product model: X303W	Product serial:
Remarks: Nominal VC -> Vol_5 Wireless 10.13 Version			

Measurement uncertainty

Expanded Uncertainty, k=2 (95% confidence) ± 0.38 dB

General parameters

Parameter	Value
EUT state	HATS position, Nominal VC.
Microphone type	T4158C-HATS-OR
Stimulus (units)	Stimulus level = 0dBPa



Reference level, Sound pressure

Reference level	SPL	Limit min	Limit max	Verdict
-21.85 dBV	0.04 dBPa	-0.2 dBPa	0.2 dBPa	Pass

Test specification:	4.2 Axial field intensity (VolP)		
Test purpose:	When measured as specified in 4.1.2, the axial component of the magnetic field directed along the measurement axis and located at the measurement plane, shall be greater than -22 dB relative to 1 A/m, for an input of -10 dBV at 1000 Hz (see Fig 2).		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	10/13/2022 11:18:15 AM		
Temperature: 24.0 °C	Air Pressure: 1007 hPa	Relative Humidity: 47%	Mains Power Supply: POE
Product name: IP Phone	Product type:	Product model: X303W	Product serial:
Remarks: Nominal VC -> Vol_5 Wireless 10.13 Version			

Measurement uncertainty

Expanded uncertainty, k=2 (95% confidence):

Signal level (200 Hz - 4 kHz) ± 0.2 dB

General parameters

Parameter	Value
EUT state	Handset on the Axial HAC probe.
Stimulus level	-21.85 dBV
Stimulus frequency	1.00 kHz

Field intensity vs probe position

HAC Probe position	Field Intensity	Limit	Verdict
			Pass
Axial normal mode	-17.33 dB A/m	-22 dB A/m	Pass

Test specification:	4.3 Radial field Intensity (VolP)		
Test purpose:	When measured as specified in 4.1.2, radial components of the magnetic field as measured at four points 90° apart, and at a distance >16 mm from the measurement axis (as selected in 4.2), shall be greater than -27 dB relative to 1 A/m, for an input of -10 dBV at 1000 Hz		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	10/13/2022 11:23:38 AM		
Temperature: 24.0 °C	Air Pressure: 1007 hPa	Relative Humidity: 47%	Mains Power Supply: POE
Product name: IP Phone	Product type:	Product model: X303W	Product serial:
Remarks: Nominal VC -> Vol_5 Wireless 10.13 Version			

Measurement uncertainty

Expanded uncertainty, k=2 (95% confidence):

Signal level (200 Hz - 4 kHz) ±0.2 dB

General parameters

Parameter	Value
EUT state	Handset on the Radial HAC probe.
Stimulus level	-21.85 dBV
Stimulus frequency	1.00 kHz

Field intensity vs probe position

HAC Probe position	Field Intensity	Limit	Verdict
			Pass
Radial normal 0 deg.	-23.19 dB A/m	-27 dB A/m	Pass
Radial normal 90 deg.	-23.97 dB A/m	-27 dB A/m	Pass
Radial normal 180 deg.	-24.77 dB A/m	-27 dB A/m	Pass
Radial normal 270 deg.	-24.30 dB A/m	-27 dB A/m	Pass

Test specification:	4.4.1 Induced voltage frequency response (axial field intensity > -19 dB)(VolP)		
Test purpose:	For receivers with an axial component which exceeds -19 dB relative to 1 A/m, when measured as specified in 4.1.2, the frequency response shall fall within the acceptable region of Fig 4A		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	10/13/2022 11:21:03 AM		
Temperature: 24.0 °C	Air Pressure: 1007 hPa	Relative Humidity: 47%	Mains Power Supply: POE
Product name: IP Phone	Product type:	Product model: X303W	Product serial:
Remarks: Nominal VC -> Vol_5 Wireless 10.13 Version			

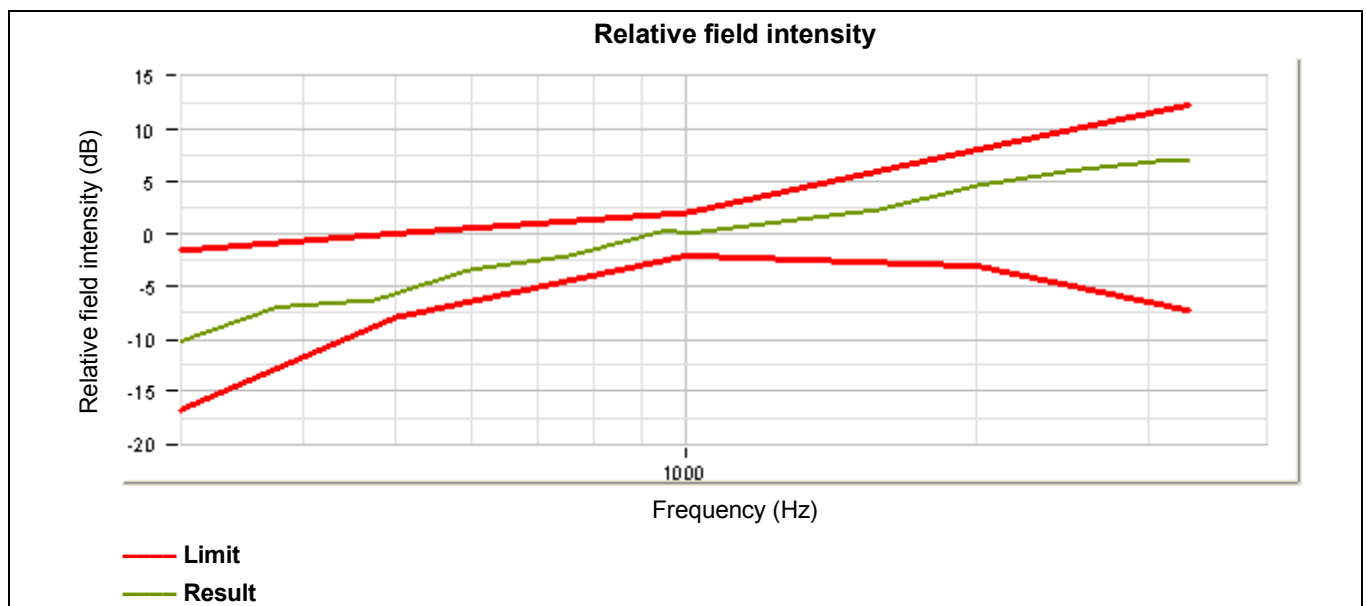
Measurement uncertainty

Expanded uncertainty, k=2 (95% confidence):

Signal level (200 Hz - 4 kHz) ±0.2 dB

General parameters

Parameter	Value
EUT state	Handset on the Axial HAC probe
Stimulus	Level value = -21.85dBV



Field intensity, Relative field intensity

Frequency	Field intensity	Relative field intensity	Limit min	Limit max	Verdict
					Pass
300 Hz	-27.19 dB A/m	-10.14 dB	-16.8 dB	-1.5 dB	Pass
378 Hz	-24.05 dB A/m	-7 dB	-12.82 dB	-821.36 mdB	Pass
476 Hz	-23.37 dB A/m	-6.33 dB	-8.85 dB	-144.44 mdB	Pass
600 Hz	-20.4 dB A/m	-3.35 dB	-6.42 dB	526.07 mdB	Pass
756 Hz	-19.17 dB A/m	-2.12 dB	-4.42 dB	1.19 dB	Pass

Test specification:	4.4.1 Induced voltage frequency response (axial field intensity > -19 dB)(VolP)		
Test purpose:	For receivers with an axial component which exceeds -19 dB relative to 1 A/m, when measured as specified in 4.1.2, the frequency response shall fall within the acceptable region of Fig 4A		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	10/13/2022 11:21:03 AM		
Temperature: 24.0 °C	Air Pressure: 1007 hPa	Relative Humidity: 47%	Mains Power Supply: POE
Product name: IP Phone	Product type:	Product model: X303W	Product serial:
Remarks: Norminal VC -> Vol_5 Wireless 10.13 Version			

Frequency	Field intensity	Relative field intensity	Limit min	Limit max	Verdict
953 Hz	-16.6 dB A/m	0.45 dB	-2.42 dB	1.86 dB	Pass
1000 Hz	-17.05 dB A/m	0 dB	-2 dB	2 dB	Pass
1260 Hz	-15.87 dB A/m	1.18 dB	-2.33 dB	4 dB	Pass
1588 Hz	-14.8 dB A/m	2.25 dB	-2.67 dB	6 dB	Pass
2000 Hz	-12.42 dB A/m	4.63 dB	-3 dB	8 dB	Pass
2520 Hz	-11.03 dB A/m	6.02 dB	-4.98 dB	9.98 dB	Pass
3176 Hz	-9.95 dB A/m	7.1 dB	-6.97 dB	11.97 dB	Pass
3300 Hz	-10.1 dB A/m	6.95 dB	-7.3 dB	12.3 dB	Pass

Test specification:	4.4.1.1 of ANSI/TIA-4965) Digital Terminals (NB)		
Test purpose:	To check that the terminal have at least one volume control setting that will produce a conversational gain of ≥ 18 dB without significant clipping of the test signal. If the Conversational Gain exceeds 24 dB for any volume control setting, the volume control shall be reset so that it produces a conversational gain < 24 dB when the terminal is caused to pass through a proper on-hook transition.		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	10/13/2022 11:16:21 AM		
Temperature: 24.0 °C	Air Pressure: 1007 hPa	Relative Humidity: 47%	Mains Power Supply: POE
Product name: IP Phone	Product type:	Product model: X303W	Product serial:
Remarks: Maximum VC -> Vol_9 Wireless 10.13 Version			

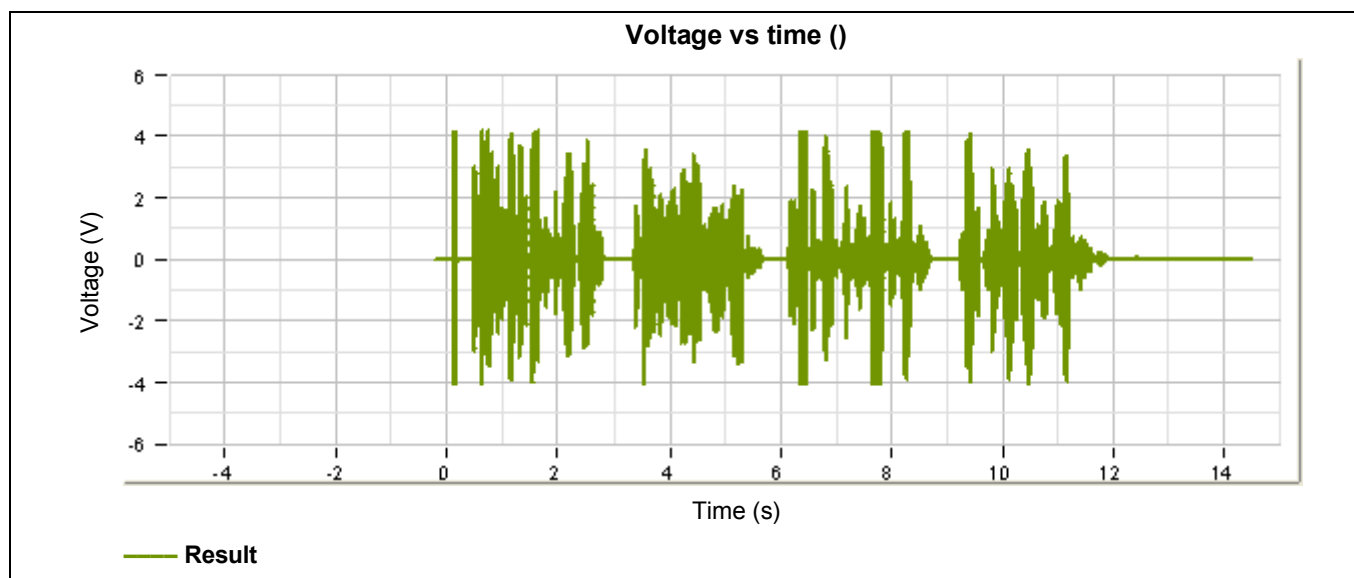
Measurement uncertainty

Expanded Uncertainty, $k=2$ (95% confidence)

Conversational gain = ± 0.23 dB

General parameters

Parameter	Value
EUT state	HATS position (force 10 N)
Stimulus	Level value = -20dBm0
Stimulus freq.	300...3350
DRP correction	DRP-FF



Conversational gain

Conversational gain	Limit min	Limit max	Verdict
22.77 dB	18 dB	24 dB	Pass

Test specification:	4.4.1.1 of ANSI/TIA-4965) Digital Terminals (WB)		
Test purpose:	To check that the terminal have at least one volume control setting that will produce a conversational gain of ≥ 18 dB without significant clipping of the test signal. If the Conversational Gain exceeds 24 dB for any volume control setting, the volume control shall be reset so that it produces a conversational gain < 24 dB when the terminal is caused to pass through a proper on-hook transition.		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	10/13/2022 11:12:36 AM		
Temperature: 24.0 °C	Air Pressure: 1007 hPa	Relative Humidity: 47%	Mains Power Supply: POE
Product name: IP Phone	Product type:	Product model: X303W	Product serial:
Remarks: Maximum VC -> Vol_9 Wireless 10.13 Version			

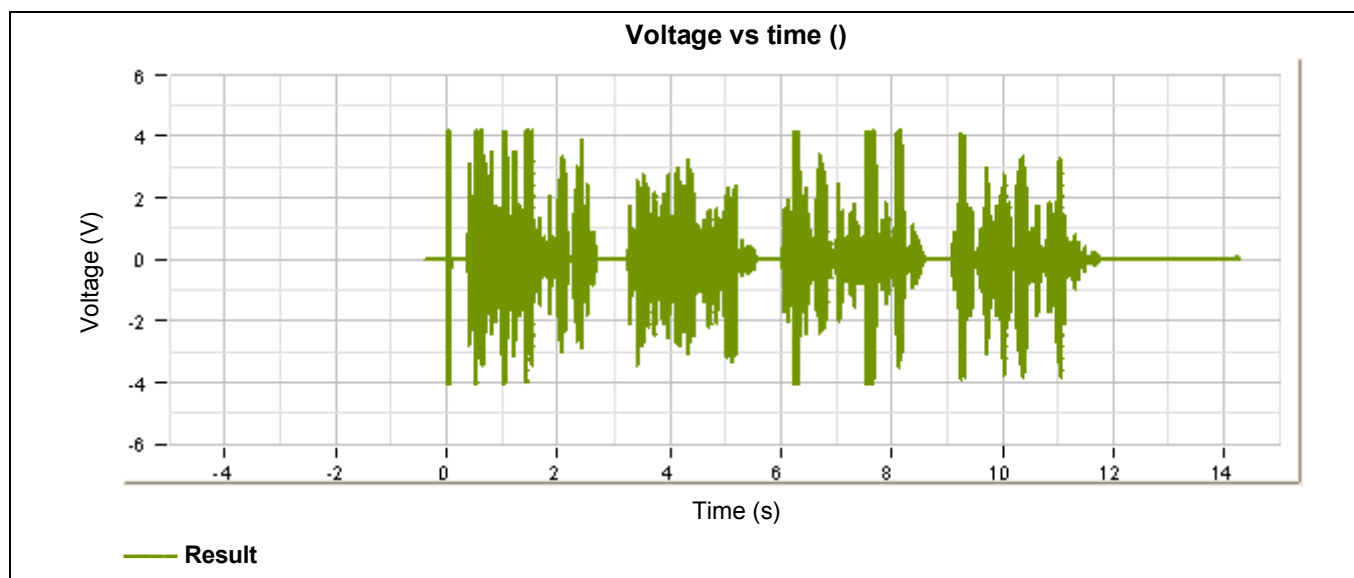
Measurement uncertainty

Expanded Uncertainty, $k=2$ (95% confidence)

Conversational gain = ± 0.23 dB

General parameters

Parameter	Value
EUT state	HATS position (force 10 N)
Stimulus	Level value = -20dBm0
Stimulus freq.	100...8000
DRP correction	DRP-FF



Conversational gain

Conversational gain	Limit min	Limit max	Verdict
21.86 dB	18 dB	24 dB	Pass
			Pass

EUT top side view



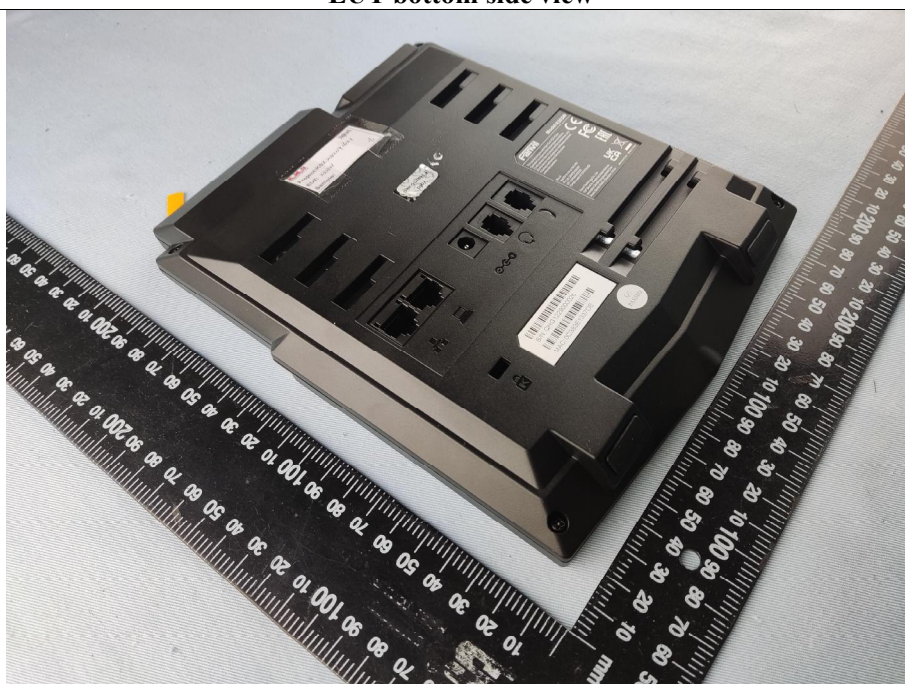
EUT top side view



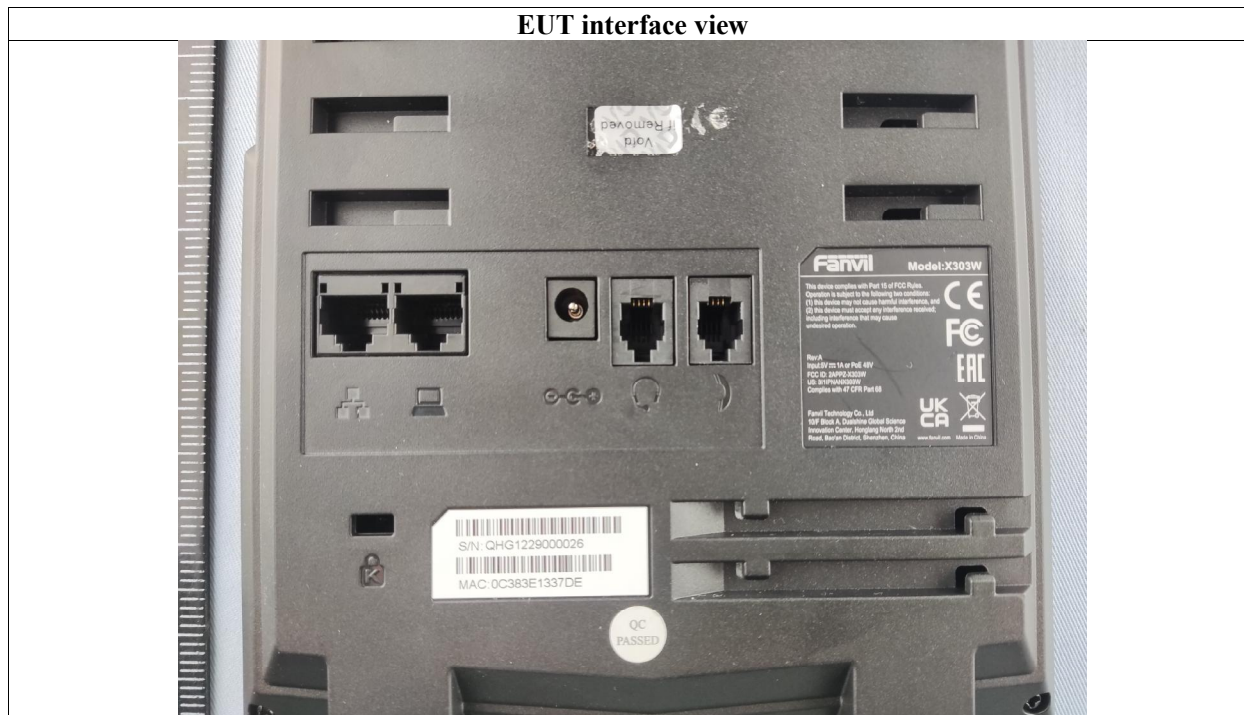
EUT bottom side view



EUT bottom side view



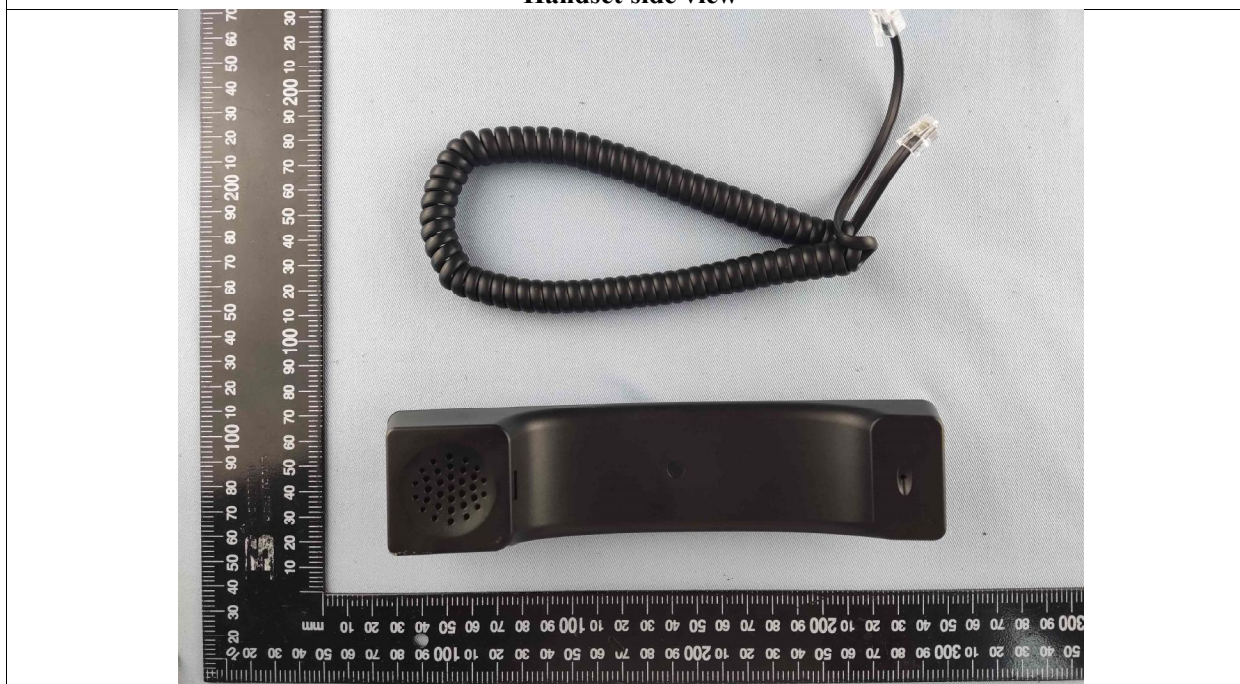
EUT interface view



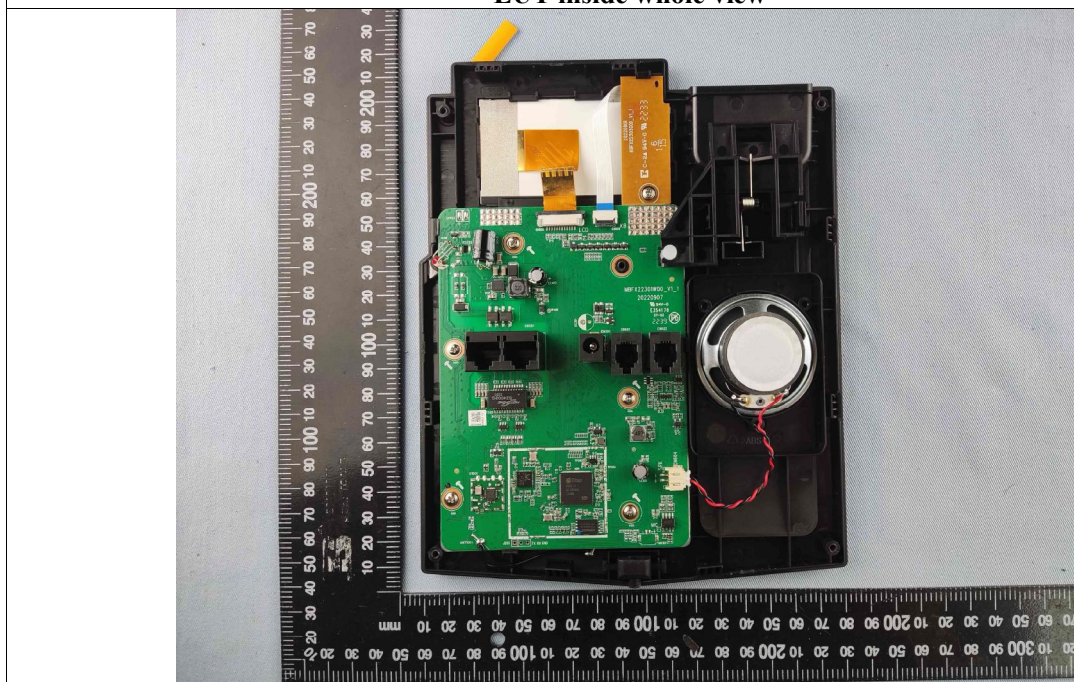
Handset top view



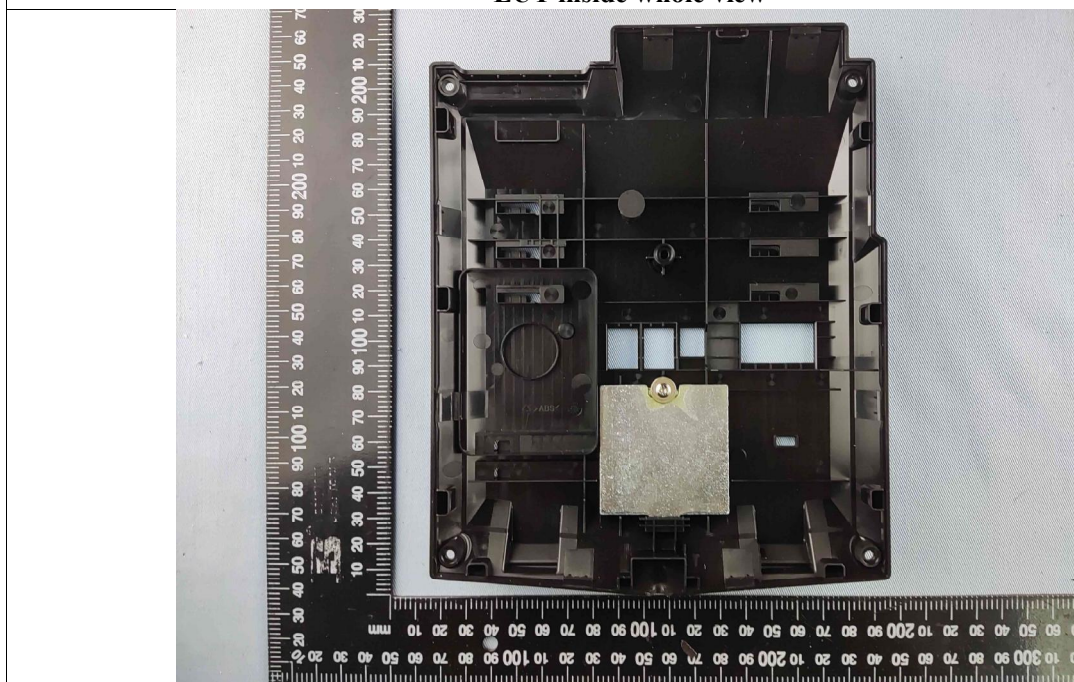
Handset side view



EUT inside whole view



EUT inside whole view



Board component side view

