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CE-EMC TEST REPORT

ANXIN

		For ANXIN ANXIN NXIN
		Cable Length Tester
	ANX	star when
	Models No.:	NF-8508, NF-8601, NF-8601S, NF-8601W
	Applicant :	Shenzhen Noyafa Electronic Co., Ltd.
		Room 3081, Building 2, Wanjing Business Center, Xinyu Road, Xinqiao Street, Baoan District, Shenzhen
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	Manufacturer :	Shenzhen Noyafa Electronic Co., Ltd.
		Room 3081, Building 2, Wanjing Business Center, Xinyu Road, Xinqiao Street, Baoan District, Shenzhen
KINA MI	Issued By :	Shenzhen An-Xin Testing Service Co., Ltd. Room 402-405, Floor 4th, Building C, Yuxing Technology Industrial Park, Xixiang Street, Bao'an District, Shenzhen,
	Tel :	Guangdong, China ************************************
	ANXINFax :	+86 755 23009643
	Report Number :	AXJC202208310262E

- Tel: +86 755 23009643
- Fax : +86 755 23009643
- ANXIN **Report Number :** AXJC202208310262E
 - Issued Date : Sep. 06, 2022

Date of Report : Sep. 06, 2022

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Product: Cable Length Tester

Model: NF-8508, NF-8601, NF-8601S, NF-8601W

Applicant: Shenzhen Noyafa Electronic Co., Ltd.

Room 3081, Building 2, Wanjing Business Center, Xinyu Road, Xinqiao Street, Baoan District, Shenzhen

Factory: Shenzhen Noyafa Electronic Co., Ltd.

Room 3081, Building 2, Wanjing Business Center, Xinyu Road, Xinqiao Street, Baoan District, Shenzhen

Test Voltage: DC 3.7V

Applicable EN 55032:2015/A1:2020 Standards: EN 55035:2017/A11:2020 EN 61000-3-2:2019/A1:2021 EN 61000-3-3:2013/A2:2021

Deviation from Applicable Standard

None

The above equipment has been tested by Shenzhen An-Xin Testing Service Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

A cher Sep. 06, 2022 Date: Tested By: Jet Chen asting Approved By: Date: Sep. 06, 2022 ANXIN Kevin Liu ANXIN ANXIN

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1.2 Test Standards

The following Declaration of Conformity report of EUT is prepared in accordance with

EN 55032: 2015+A1:2020 EN 55035:2017/A11:2020

1.3 TEST SUMMARY

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For the EUT described above. The standards used were EN 55032 Class B for Emissions & EN 55024 for Immunity.

Table 1: Tests Carried Out Under EN 55032: 2015+A1:2020(as amended)

Standard	Test Items	Statu s
EN 55020-2045 - 44-2020	Conducted (Main Port)	\checkmark
EN 55032:2015+A1:2020	Radiated Disturbances	ANY .
EN 61000-3-2:2019/A1:2021	Harmonic current emissions	\checkmark
EN 61000-3-3:2013+ A2:2021	Voltage fluctuations & flicker	XII
at.	All in the	Ar

Indicates that the test is applicable X

Indicates that the test is not applicable

Table 2: Tests Carried Out Under EN 55035: 2017+A11:2020 (as amended)

Standard	Test Items	Statu s
EN61000-4-2:2009	Meets the requirements of Performance Criterion B	N
EN IEC 61000-4-3:2020	Meets the requirements of Performance Criterion A	\checkmark
EN61000-4-4:2012	Meets the requirements of Performance Criterion B	\checkmark
EN61000-4-5:2014+A1:2017	Meets the requirements of Performance Criterion B	V
EN61000-4-6:2014+AC:2015	Meets the requirements of Performance Criterion A	\checkmark
EN IEC 61000-4-11:2020	Meets the requirements of Voltage dips: 1) >95% reduction performance Criterion B 2) 30% reduction performance Criterion C Voltage variations: 1)>95% reduction performance Criterion C	pm P
√ Indicates that	the test is applicable	ANXI

Indicates that the test is applicable Indicates that the test is not applicable

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1.4 Test Methodology

All measurements contained in this report were conducted with CISPR 16-1: 2002, radio disturbance and immunity measuring apparatus, and CISPR16-2: 2002, Method of measurement of disturbances and immunity.

All measurement required was performed at laboratory of POCE Technology Co., Ltd.

1F, Bldy.H, Hongfa Science and Technology park, Tangtou, Shiyan Street, Bao'an District, Shenzhen **1.5 Test Instruments list**

Immunity shielded room Serial Number **Calibration Due** Name of Equipment Manufacturer Model EMC PARTNER 04/10/2023 EMC PARTNER TRA2000 881 **TRANSIENT 2000** Power-frequency 04/10/2023 72046 SCHAFFNER CCN 1000-1 Magnetic field Induction Coil 04/10/2023 SCHAFFNER 6003 INA2141 Interface Signal Generator 2022D 119246/003 04/10/2023 Marconi **Power Amplifier** M₂S A00181-1000 9801-112 04/10/2023 M3-8016 CDN MEB 003683 04/10/2023 AC8113/ 04/10/2023 **Power Amplifier** M2S 9801-179 800-250A Power Antenna SCHAFFNER CBL6140A 1204 04/10/2023 ESD 2000 EMC PARTNER ESD2000 182 04/10/2023 Harmonic & Flicker 04/10/2023 California PACS-3 SB2588/01 instruments Tester California 04/10/2023 SB2588 AC Power Source 5001iX-CTS-40 instruments 04/10/2023 100005 EMI Test Receiver R&S ESCI 04/10/2023 Spectrum Analyzer R&S FSU 100114 H.P. HP8447E 2945A02715 04/10/2023 Pre Amplifier SUNOL 04/10/2023 **Bilog Antenna** JB3 A021907 Sciences TIME 04/10/2023 Cable LMR-400 N-TYPE04 MICROWAVE System-Controller CCS N/A N/A N.C.R N/A Turn Table CCS N/A N.C.R N/A CCS N/A N.C.R Antenna Tower LLA-2 Triple-Loop Antenna **EVERFINE** N/A 04/10/2023 AFJ LISN LS16 16010222119 04/10/2023 LISN(EUT) AN3016 04/10040 04/10/2023 Mestec

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2 SYSTEM TEST CONFIGURATION

2.1 Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

2.2 EUT Exercise Software

The EUT exercising program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The software offered by manufacture, can let the EUT being normal operation.

2.3 Equipment Modifications

The EUT tested was not modified by POCE Technology Co., Ltd. 1F, Bldy.H, Hongfa Science and Technology park, Tangtou, Shiyan Street, Bao'an District, Shenzhen

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3 EMISSION TEST 3.1 LIMITS

Shenzhen An-Xin Testing Service Co., Ltd Report No.: AXJC202208310262E

FREQUENCY (MHz)	Class I	B (dBuV)
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60 AN	50

NOTE:

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz. (3) All emanations from a class A/B digital device or system, including any network of conductors and
- apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.2 TEST PROCEDURES

Procedure of Preliminary Test

The EUT and Support equipment, if needed, was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per EN55032 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor standing equipment, it is placed on the ground plane, which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.

All I/O cables were positioned to simulate typical actual usage as per EN55032. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT. The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes. During the above scans, the emissions were maximized by cable manipulation. The test mode(s) described in Item 3.1 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 3.1 producing the

highest emission level.

The EUT configuration and cable configuration of the above highest emission levels were recorded for reference of the final test.

Procedure of Final Test

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

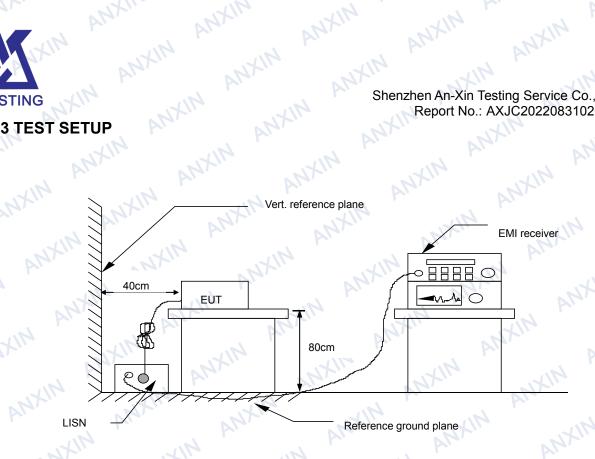
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3.3 TEST SETUP

Report No.: AXJC202208310262E



please refer to the related item – Photographs of the For the actual test configuration, Test Configuration. ANXIN

3.4 TEST RESULTS

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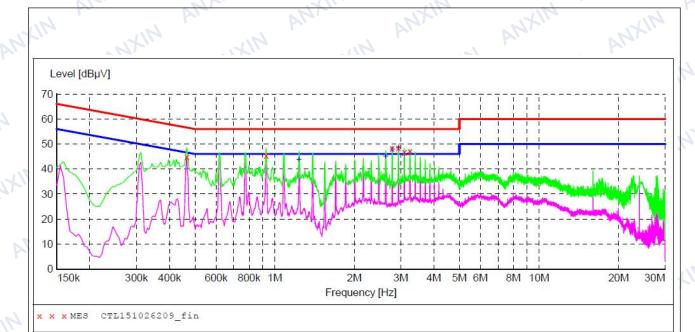
22~28
50~54
950~1000
Cable Length Tester
NF-8601W
Normal Operating
N/A PROVIDENT
with with a

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ANA A	WXIII AWXIN	MAXIN WXIN	1 hr. Ally Ale.
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TESTING	ANXIN ANY		Xin Testing Service Co., Ltd No.: AXJC202208310262E
EUT:	Cable Length Tester	Model Name :	NF-8601W
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	Aug. 30, 2022
Test Mode :	Running	Polarization :	L Pr
Test Power :	DC3.7V	AN MA	an alle



	Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE	
ANX	0.465001 0.928501 2.782501 2.935501 3.093001 3.246001	44.90 45.40 48.30 48.40 46.80 47.00	10.2 10.3 10.4 10.4 10.4 10.4	57 56 56 56 56 56	11.7 10.6 7.7 7.6 9.2 9.0	QP QP QP QP QP QP	N N N N N	GND GND GND GND GND GND	
2	Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE	
17/12	1.234501 2.629501 2.782501 2.935501 3.093001 3.246001	43.70 44.90 47.80 48.20 46.00 46.30	10.3 10.4 10.4 10.4 10.4 10.4	46 46 46 46 46	2.3 1.1 -1.8 -2.2 0.0 -0.3	AV AV AV AV AV AV	N N N N N	GND GND GND GND GND GND	
r.	5.246001	40.30	10.4	40	-0.3	AV	IN	GND	

Remark:

NXIN

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.
- 3. N/A means All Data have pass Limit.

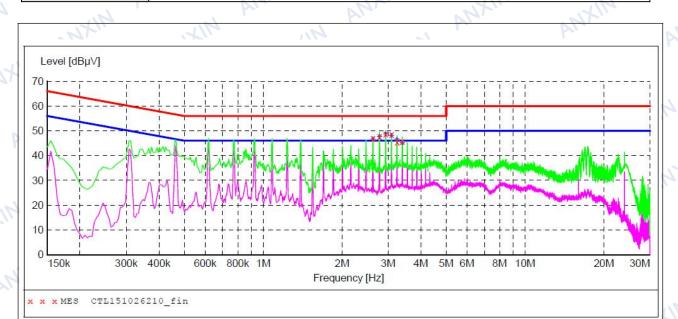
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IN T	ESTING	MIN MIXIN		Xin Testing Service Co., Ltd No.: AXJC202208310262E
	EUT:	Cable Length Tester		NF-8601W
	Temperature:	24 °C	Relative Humidity:	54%
	Pressure:	1010 hPa	Test Date :	Aug. 30, 2022
	Test Mode :	Running	Polarization :	N
	Test Power :	DC3.7V	Alt .	A



	NY".	XIP	1	4	4	T -	P.	1-	
4	-						+ • • • • •	DE	-
	Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE	
	2.625001	46.90	10.4	56	9.1	QP	L1	GND	
1	2.778001	47.70 48.70	10.4	56	8.3	QP QP	L1 L1	GND GND	
	3.088501	48.50	10.4	56	7.5	QP	L1	GND	
	3.246001	45.40	10.4	56	10.6	QP	L1	GND	
	3.399001	45.80	10.4	56	10.2	QP	L1	GND	
	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
1	MHz	dBµV	dB	dBµV	dB				
	2.625001	46.50	10.4	46	-0.5	AV	L1	GND	
	2.778001	47.40	10.4	46	-1.4	AV	L1	GND	
	2.935501	48.40	10.4	46	-2.4	AV	L1	GND	
	3.088501	48.10	10.4	46	-2.1	AV	L1	GND	
	3.241501	46.40	10.4	46	-0.4	AV	L1	GND	
	3.399001	44.90	10.4	46	1.1	AV	L1	GND	
	0.00001		-v• · ·	10				01.12	

Remark:

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- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.
- 3. N/A means All Data have pass Limit.

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4 RADIATED EMISSION MEASUREMENT

4.1 LIMITS

FREQUENCY (MHz)	dBuV/m (At 3m)
	Limit
30 ~ 230	40
230 ~ 1000	47

NOTE: (1) The lower limit shall apply at the transition frequencies.

(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).

4.2 TEST PROCEDURE

Procedure of Preliminary Test

The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane. Support equipment, if needed, was placed as per EN55032. All I/O cables were positioned to simulate typical usage as per EN55032.ains cables, telephone lines or other connections to auxiliary equipment located outside the test are shall drape to the floor, be fitted with ferrite clamps or ferrite tubes placed on the floor at the point where the cable reaches the floor and then routed to the place where they leave the turntable. No extension cords shall be used to mains receptacle. The antenna was placed at 3 meter away from the EUT as stated in EN 55032. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.

The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

The test mode(s) described in Item 3.1 were scanned during the preliminary test:

After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level. The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.

Procedure of Final Test

EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.

The Analyzer / Receiver scanned from 30MHz to 1000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.

The test data of the worst-case condition(s) was recorded.

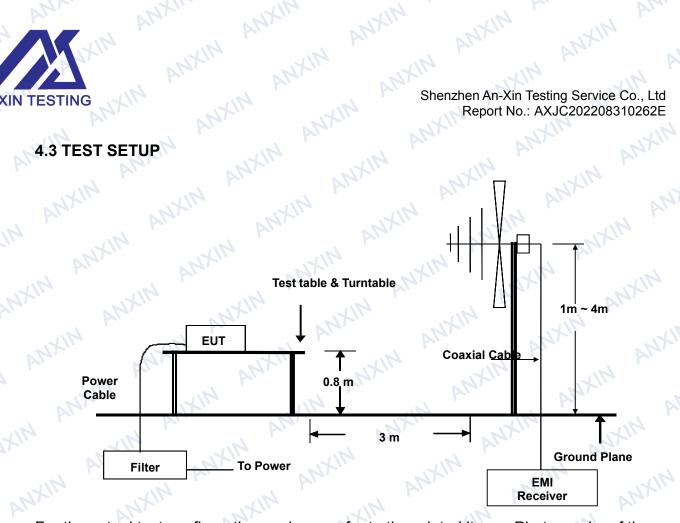
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NXIN

Report No.: AXJC202208310262E

4.3 TEST SETUP



ANXIN For the actual test configuration, please refer to the related item – Photographs of the Test Configuration 4.4 TEST RESULTS

22~28
50~57
950~1000
Cable Length Tester
NF-8601W
Full Load
Pass
ANXIN ANXIN A. WXIN ANY ANY

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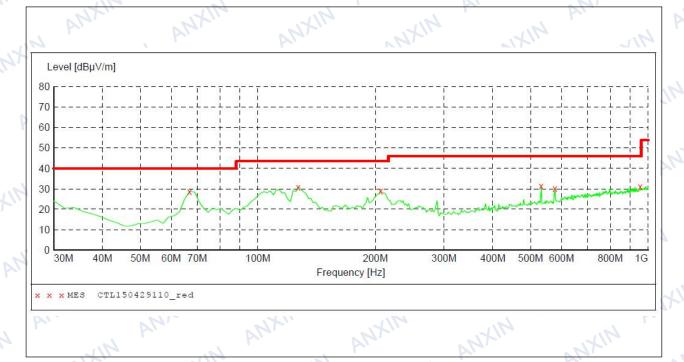
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ANXIN	TESTING	ANXIN ANXIN		n-Xin Testing Service Co., Ltd
A	N	the second second		ort No.: AXJC202208310262E
	EUT:	Cable Length Tester	Model Name. :	NF-8601W
	Temperature:	26 °C	Relative Humidity:	54%
	Pressure:	1010hPa	Test Date:	Aug. 30, 2022 💊
	Test Mode:	Full Load	Phase:	Vertical
	Test Voltage :	DC3.7V	itill	AL AL
			A 14'	



AR	20	24.	st	IL.	1	N	100	
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
66.860000	28.60	8.4	40.0	11.4		0.0	0.00	VERTICAL
127.000000	30.90	15.0	43.5	12.6		0.0	0.00	VERTICAL
206.540000	29.10	14.3	43.5	14.4		0.0	0.00	VERTICAL
532.460000	31.30	20.6	46.0	14.7		0.0	0.00	VERTICAL
577.080000	30.10	21.5	46.0	15.9	<u></u>	0.0	0.00	VERTICAL
955.380000	31.10	26.7	46.0	14.9		0.0	0.00	VERTICAL
_ [*'	NP'		NT.					

Remark:

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- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.
- 3. N/A means All Data have pass Limit

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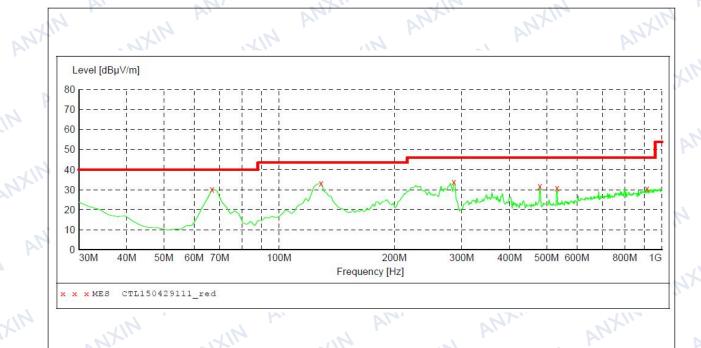
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a source	ANXIN ANXIN		
TESTING	ANXIN ANXIN		-Xin Testing Service Co., Ltd t No.: AXJC202208310262E
EUT:	Cable Length Tester	Model Name. :	NF-8601W
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	Aug. 30, 2022
Test Mode:	Full Load	Phase:	Horizontal
Test Voltage :	DC3.7V	AR AN	L. Atte
	An The		



1									
	the M	IN A.	Ally.	AR	In.	AUX		ANXIN	ANXIN
	Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
	MHz	dBµV/m	dB	dBµV/m	dB		CM	deg	
	66.860000	30.30	8.4	40.0	9.7		0.0	0.00	HORIZONTAL
' la	128.940000	33.10	14.9	43.5	10.4	0002004	0.0	0.00	HORIZONTAL
	286.080000	33.70	15.4	46.0	12.3	<u></u>	0.0	0.00	HORIZONTAL
	480.080000	31.70	20.1	46.0	14.3		0.0	0.00	HORIZONTAL
	532.460000	30.90	20.6	46.0	15.1		0.0	0.00	HORIZONTAL
	914.640000	30.60	26.2	46.0	15.4	(1)(1)(1)	0.0	0.00	HORIZONTAL
	Remark:								
	1. All readings	are Quasi-	Peak and	Average	values.				

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.
- 3. N/A means All Data have pass Limit ANXIN ANXIN ANXIN ANXIN ANXIN ANXIN

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5 HARMONICS CURRENT MEASUREMENT 5.1. LIMITS OF HARMONICS CURRENT MEASUREMENT

Limits for	Class A equipment	ent Limits for Class D equipment				
Harmonics Order n	Order harmonics current		Max. permissible harmonics current per watt mA/W	Max. permissible harmonics current A		
Oc	d harmonics		Odd Harmonics only			
3	2.30	3	3.4	2.30		
5	1.14	5	1.9	1.14		
7	0.77	7	1.0	0.77		
9	0.40	9	0.5	0.40		
11-11-	0.33	11	0.35	0.33		
13	0.21	13	0.30	0.21		
15<=n<=39	0.15x15/n	15<=n<=39	3.85/n	0.15x15/n		
Eve	en harmonics	411		Ar.		
2	1.08	ANT.	attra 1	4		
4	0.43		AL AL	ant'i		
6	0.30	14	An	h.		
8<=n<=40	0.23x8/n	AR	ant'	The stre		

NOTE: 1. Class A and Class D are classified according to item 4.4.3.

2. According to section 7 of EN 61000-3-2, the above limits apply for all equipments with a rated power more than 75W, except for lighting equipment.

5.2. TEST PROCEDURE

The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the maximum harmonic components under LIGHTING operating conditions for each successive harmonic component in turn.

The classification of EUT is according to section 5 of EN 61000-3-2.

The EUT is classified as follows:

Class A: Balanced three-phase equipment, Household appliances excluding equipment as Class D, Tools excluding portable tools, Dimmers for incandescent lamps, audio equipment, equipment not specified in one of the three other classes.

Class B: Portable tools; Arc welding equipment which is not professional equipment.

- Class C: Lighting equipment.
- Class D: Equipment having a specified power less than or equal to 600 W of the following types: Personal computers and personal computer monitors and television receivers.

The correspondent test program of test instrument to measure the current harmonics emanated from EUT is chosen. The measure time shall be not less than the time necessary for the EUT to be exercised.

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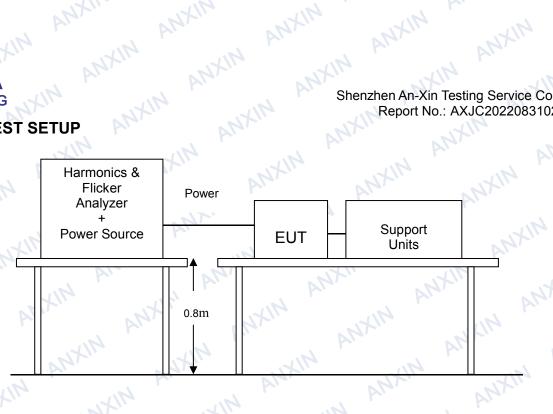
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5.3. TEST SETUP

Report No.: AXJC202208310262E



Temperature (\degree C)	22~28
Humidity (%RH)	50~58
Barometric Pressure (mbar)	950~1000
EUT	Cable Length Tester
M/N	NF-8601W
Operating Mode	Full Load
Test Results	PASS AND
ANXIN ANXIN AN	XIN ANXIN
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6. Voltage Fluctuation and Flicker 6.1. LIMITS OF VOLTAGE FLUCTUATION AND FLICKS MEASUREMENT

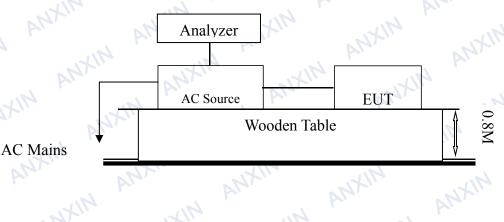
TEST ITEM	LIMIT	REMARK
P _{st}	1.0	P _{st} means short-term flicker indicator.
Pit	0.65 🔊	P _{lt} means long-term flicker indicator.
T _{dt} (ms)	500	T _{dt} means maximum time that dt exceeds 3 %.
d _{max} (%)	4%	d _{max} means maximum relative voltage change.
dc (%)	3.3%	dc means relative steady-state voltage change

6.2 TEST SPECIFICATION

The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the most unfavorable sequence of voltage changes under normal operating conditions.

During the flick measurement, the measure time shall include that part of whole operation cycle in which the EUT produce the most unfavorable sequence of voltage changes. The observation period for short-term flicker indicator is 10 minutes and the observation period for long-term flicker indicator is 2 hours.

6.3 TEST SETUP



6.4 TEST RESULTS

ANXIN ANXIN ANXIN ANXIN
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22~28
50~57
950~1000
Cable Length Tester
NF-8601W
Full Load
PASS

MUNITY TEST **GENERAL DESCRIPTION**

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Product		EN 55024
Standard	Test Type	Minimum Requirement
	EN 61000-4-2	Electrostatic Discharge – ESD: 8kV air discharge, 4kV Contact discharge, Performance Criterion B
ŀ	EN 61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test – RS: 80 ~1000 MHz, 3V/m, 80% AM(1kHz), Performance Criterion A
	EN 61000-4-4	Electrical Fast Transient/Burst - EFT, Power line: 1kV, Signal line: 0.5kV, Performance Criterion B
Basic Standard, Specification, and Performance Criterion	EN 61000-4-5	Surge Immunity Test: 1.2/50 us Open Circuit Voltage, 8 /20 us Short Circuit Current, Power Port ~ Line to line: 1kV, Line to ground: 2kV Signal Port ~ Lines to ground : 1kV Performance Criterion B
required	EN 61000-4-6	Conducted Radio Frequency Disturbances Test –CS: 0.15 ~ 80 MHz, 3Vrms, 80% AM, 1kHz, Performance Criterion A
	EN 61000-4-11	Voltage Dips: i) >95% reduction for 0.5 period, Performance Criterion B ii) 30% reduction for 25 period,
	and ANXIN	Performance Criterion C Voltage Interruptions: >95% reduction for 250 period Performance Criterion C
ANXIN ANXIN	ANXIN ANXIN	Performance Criterion C

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7.2 GENERAL PERFORMANCE CRITERIA DESCRIPTION

Criteria A:	The apparatus shell continues to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. If the manufacturer does not specify the minimum performance level or the permissible performance loss, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.
Criteria B:	After test, the apparatus shell continues to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomenon below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance.
	During the test, degradation of performance is however allowed. However, no change of operating state if stored data is allowed to persist after the test. If the manufacturer does not specify the minimum performance level or the permissible performance loss, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.
Criteria C:	Temporary loss of function is allowed, provided the functions is self-recoverable or can be restored by the operation of controls by the user in accordance with the manufacturer instructions.
	Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

7.3 ELECTROSTATIC DISCHARGE (ESD) 7.3.1 TEST SPECIFICATION

Basic Standard:	EN 61000-4-2
Discharge Impedance:	330 ohm
Charging Capacity:	150pF
Discharge Voltage:	Air Discharge: 8 kV (Direct)
	Contact Discharge: 4 kV (Direct/Indirect)
Polarity:	Positive & Negative
Number of Discharge:	Minimum 25 times at each test point
Discharge Mode:	1 time/s
Performance Criterion:	B, ALL ART

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7.3.3 TEST PROCEDURE

The discharges shall be applied in two ways:

- a) Contact discharges to the conductive surfaces and coupling planes:
 - The EUT shall be exposed to at least 200 discharges, 100 each at negative and positive polarity, at a minimum of four test points. One of the test points shall be subjected to at least 50 indirect discharges to the center of the front edge of the Horizontal Coupling Plane (HCP). The remaining three test points shall each receive at least 50 direct contact discharges. If no direct contact test points are available, then at least 200 indirect discharges shall be applied in the indirect mode. Test shall be performed at a maximum repetition rate of one discharge per second.
- b) Air discharges at slots and apertures and insulating surfaces:

On those parts of the EUT where it is not possible to perform contact discharge testing, the equipment should be investigated to identify user accessible points where breakdown may occur. Such points are tested using the air discharge method. This investigation should be restricted to those area Full Load handled by the user. A minimum of 10 single air discharges shall be applied to the selected test point for each such area.

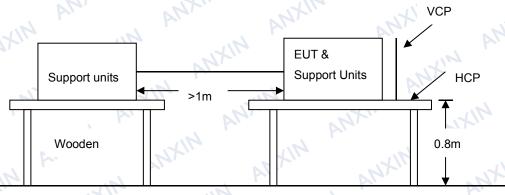
The basic test procedure was in accordance with IEC 61000-4-2:

- a) The EUT was located 0.1 m minimum from all side of the HCP (dimensions 1.6m x 0.8m).
- b) The support units were located another table 30 cm away from the EUT, but direct support unit was/were located at same location as EUT on the HCP and keep at a distance of 10 cm with EUT.
- c) The time interval between two successive single discharges was at least 1 second.
- d) Contact discharges were applied to the non-insulating coating, with the pointed tip of the generator penetrating the coating and contacting the conducting substrate.
- e) Air discharges were applied with the round discharge tip of the discharge electrode approaching the EUT as fast as possible (without causing mechanical damage) to touch the EUT. After each discharge, the ESD generator was removed from the EUT and re-triggered for a new single discharge. The test was repeated until all discharges were complete.
- f) At least ten single discharges (in the most sensitive polarity) were applied at the front edge of each HCP opposite the center point of each unit of the EUT and 0.1 meters from the front of the EUT. The long axis of the discharge electrode was in the plane of the HCP and perpendicular to its front edge during the discharge.
- g) At least ten single discharges (in the most sensitive polarity) were applied to the center of one vertical edge of the Vertical Coupling Plane (VCP) in sufficiently different positions that the four faces of the EUT were completely illuminated. The VCP (dimensions 0.5m x 0.5m) was placed vertically to and 0.1 meters from the EUT.

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7.3.4 TEST SETUP



Ground Reference

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

NOTE:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table 0.8 meters high standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum at least 0.25mm thick, and 2.5 meters square connected to the protective grounding system. A Horizontal Coupling Plane (1.6m x 0.8m) was placed on the table and attached to the GRP by means of a cable with 940k total impedance. The equipment under test, was installed in a representative system as described in section 7 of EN 61000-4-2, and its cables were placed on the HCP and isolated by an insulating support of 0.5mm thickness. A distance of 1-meter minimum was provided between the EUT and the walls of the laboratory and any other metallic structure.

FLOOR-STANDING EQUIPMENT

The equipment under test was installed in a representative system as described in section 7 of IEC 61000-4-2, and its cables were isolated from the Ground Reference Plane by an insulating support of 0.1-meter thickness. The GRP consisted of a sheet of aluminum that is at least 0.25mm thick, and 2.5 meters square connected to the protective grounding system and extended at least 0.5 meters from the EUT on all sides.

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ANXIN ANXIN ANXIN 7.3.5 TEST RESULTS

AMY ANY	3.5 TEST RESULTS
2~28	Гетрегаture (°С)
0~57	Humidity (%RH)
0~1000	Barometric Pressure (mbar)
ength Tester	TUT
-8601W	и/N
II Load	Operating Mode
PASS	Test Results
and in the	ARE ATTA

			Air Disch	narge			
		Test Levels			Results		
Test lo	ocations	± 8 kV	Pass	Fail	Performance Criterion	Observ	vation
Slot	4Points	\square	\square		В	Note 🗌 1	⊠2
10				. 1		SUL-	11

		Con	tact Dis	charge			
		Test Levels		_	Results		
Test Po	ints	± 4 kV	Pass	Fail	Performance Criterion	Obser	vation
DC Port	2Points	\boxtimes	\square		В	Note 🗌 1	⊠2
HCP	4Points	\boxtimes			В	Note 🗌 1	⊠2
VCP	4Points	\boxtimes	\square		В	Note 🗌 1	⊠2

NOTE: 1. There was no change compared with initial operation during the test.

2. The loss of function of the EUT during the test and it was recovered by itself operation after the test.

7.4 RADIATED, RADIO-FREQUENCY, ELECTROMAGNETIC FIELD (RS)

Basic Standard:	EN 61000-4-3
Frequency Range:	80 MHz ~1000 MHz,
Field Strength:	3 V/m
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of preceding frequency value
Polarity of Antenna:	Horizontal and Vertical
Test Distance:	3 m
Antenna Height:	1.5m
Performance Criterion:	A A A
A	

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7.4.1 TEST PROCEDURE

The test procedure was in accordance with EN 61000-4-3

- a) The testing was performed in a fully anechoic chamber. The transmit antenna was located at a distance of 3 meters from the EUT.
- b) The frequency range is swept from 80 MHz to 1000 MHz, with the signal 80% amplitude modulated with a 1kHz sine-wave. The rate of sweep did not exceed 1.5 x 10⁻³ decade/s, where the frequency range is swept incrementally, the step size was 1% of preceding frequency value.
- c) The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.
- d) The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.

3m 7X4X3 EUT& Support 0.8m AN Power Amp Signal EUT Monitoring by Generator using a camera PC Controller to control S.G. & PA as well as forward power **Control Room** ANXIN

7.4.2 TEST SETUP

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For the actual test configuration, please refer to the related item . **NOTE:**

TABLETOP EQUIPMENT

The EUT installed in a representative system as described in section 7 of EN 61000-4-3 was placed on a non-conductive table 0.8 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

FLOOR STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC 61000-4-3 was placed on a non-conductive wood support 0.1 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

7.4.3 TEST RESULTS

Temperature (°C)	22~28
Humidity (%RH)	50~57
Barometric Pressure (mbar)	950~1000
EUT	Cable Length Tester
M/N	NF-8601W
Operating Mode	Full Load
Test Results	PASS
	L. M. M. IA

Frequency (MHz)	Polarity	Position	Field Strength (V/m)	Observation	Result
80 ~ 1000	V&H	Front	1 3	Note	PASS
80 ~ 1000	V&H	Rear	3	Note	PASS
80 ~ 1000	V&H	Left	113	Note	PASS
80 ~ 1000	V&H	Right	3	Note	PASS

NOTE: There was no change compared with the initial operation during the test.

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7.5 ELECTRICAL FAST TRANSIENT (EFT) 7.5.1 TEST SPECIFICATION

Basic Standard: Test Voltage:

EN 61000-4-4 Power Line: 1 kV Signal/Control Line: 0.5 kV **Polarity:** Positive & Negative

Impulse Frequency: Impulse Wave-shape: **Burst Duration: Burst Period: Test Duration:** Performance criterion:

5 kHz 5/50 ns 15 ms 300 ms Not less than 1 min. B

7.5.2 TEST PROCEDURE

- a) Both positive and negative polarity discharges were applied.
 b) The length of the "
- b) The length of the "hot wire" from the coaxial output of the EFT generator to the terminals on the EUT should not exceed 1 meter.
- c) The duration time of each test sequential was 1 minute.
- d) The transient/burst waveform was in accordance with EN 61000-4-4, 5/50ns.



7.5.3 TEST SETUP

					141.	-		
	XIN AND		sxin	NXIN	EUT	UM	Support Units	N ANX
		EFT/Burst/ Surge Generator	ANXIN	● 0.8m ↓	Non-Co	nductive	e Table	NXIN P
	IN ARY	Controller Comput	er AMX	in a	ANXIN	F	MXIN	ANXIN
		JXIN ANY	Comm. L	ine ≧ 3 m	ANXI	1	ANXIN	AN
WXIN .		To Load	10cm			UT	AN	XIM
AC	Burst Generator	- AN	Injection C				Conductive Table	0.8m
in a				annp	AL		WY.	L nr

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

Т

NOTE:

TABLETOP EQUIPMENT

The configuration consisted of a wooden table (0.8m high) standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system. A minimum distance of 0.5m was provided between the EUT and the walls of the laboratory or any other metallic structure.

FLOOR STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC 61000-4-4 and its cables, were isolated from the Ground Reference Plane by an insulating support that is 0.1-meter thick. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system.

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7.5.4 TEST RESULTS	in a man and and
Temperature (°C)	22~28
Humidity (%RH)	50~57
Barometric Pressure (mbar)	950~1000
EUT	Cable Length Tester
M/N	NF-8601W
Operating Mode	Full Load
Test Results	PASS

Test Point	Polarity	Test Level (kV)	Performance Criterion	Observation	Result
L1	+/-	AL 1	ANY B	Note 🗌 1 🛛 🛛 2	PASS
L 2	+/-	1,111	В	Note 🗌 1 🛛 🛛 2	PASS
L 1–L 2	+/-	A1	B	Note 🗌 1 🛛 🖂 2	PASS
Signal Line	- 17	In - W	1.	Note 🗌 1 🛛 🗋 2	N/A

NOTE: 1. There was no change compared with initial operation during the test.

2. The loss of function of the EUT during the test and it was recovered by itself operation after the test.

7.6 SURGE IMMUNITY TEST 7.6.1 TEST SPECIFICATION

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Basic Standard:	EN 61000-4-5
Wave-Shape:	Combination Wave
	1.2/50 us Open Circuit Voltage
	8/20 us Short Circuit Current
Test Voltage:	Power line ~ line to line: 1 kV;
	line to ground: 2kV
	Telecommunication line: 1 kV;
Surge Input/Output:	Power Line: L-N / L-PE / N-PE
	Telecommunication line: T-Ground / R-Ground
Generator Source Impedance:	2 ohm between networks
	12 ohm between network and ground
Polarity:	Positive/Negative
Phase Angle:	0 /90 /180 /270
Pulse Repetition Rate:	1 time / min. (maximum)
Number of Tests:	5 positive and 5 negative at selected points
Performance Criterion:	But it with

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7.6.2 TEST PROCEDURE

a) For EUT power supply:

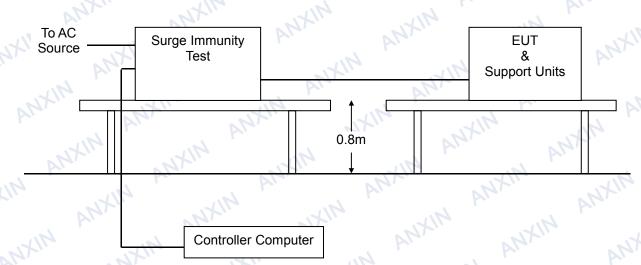
The surge is applied to the EUT power supply terminals via the capacitive coupling network. Decoupling networks are required in order to avoid possible adverse effects on equipment not under test that may be powered by the same lines, and to provide sufficient decoupling impedance to the surge wave. The power cord between the EUT and the coupling/decoupling networks was shorter than 2 meters in length.

b) For test applied to unshielded un-symmetrically operated interconnection lines of EUT: The surge was applied to the lines via the capacitive coupling. The coupling / decoupling networks didn't influence the specified functional conditions of the EUT. The interconnection line between the EUT and the coupling/decoupling networks was shorter than 2 meters in length.

c) For test applied to unshielded symmetrically operated interconnection / telecommunication lines of EUT:

The surge was applied to the lines via gas arrestors coupling. Test levels below the ignition point of the coupling arrestor were not specified. The interconnection line between the EUT and the coupling/decoupling networks was shorter than 2 meters in length.

7.6.3 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

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	7.6.4 TEST RESULTS		
	Temperature ($^{\circ}C$)	22~28	75
	Humidity (%RH)	50~57	
	Barometric Pressure (mbar)	950~1000	P
	EUT	Cable Length Tester	
	M/N	NF-8601W	
	Operating Mode	Full Load	h_{μ}
	Test Results	PASS	
	the int	ALL ARY	4.

Test Point	Polarity	Test Level (kV)	Performance Criterion	Observation	Result
AL-N	1+1-	atin	BA	Note 🗌 1 🛛 🛛 2	PASS
L - PE	1	AIT.	ANI	Note 1 2	N/A
N - PE	AX	Latin	1 th	Note 🗌 1 🛛 🗆 2	N/A
R - Ground	1	N	PL	Note 1 2	N/A
T - Ground		1		Note 🗌 1 🗌 2	N/A

NOTE: 1. There was no change compared with initial operation during the test.2. The loss of function of the EUT during the test and it was recovered by itself operation after the test.

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7.7 CONDUCTED RADIO FREQUENCY DISTURBANCES (CS) 7.7.1 TEST SPECIFICATION

Basic Standard: E Frequency Range: 0 Field Strength: 3 Modulation: 1 Frequency Step: 1 Coupled cable: F Coupling device: 0

EN 61000-4-6
0.15 MHz ~ 80 MHz
3 V
1kHz Sine Wave, 80%, AM Modulation
1 % of preceding frequency value
Power Mains, Shielded
CDN-M3/2 (2 wires)
A

Performance criterion:

7.7.2 TEST PROCEDURE

The EUT shall be tested within its intended operating and climatic conditions.

The test shell performed with the test generator connected to each of the coupling and decoupling devices in turn, while the other non-excited RF input ports of the coupling devices are terminated by a 50-ohm load resistor.

The frequency range was swept from 150 kHz to 80 MHz, using the signal level established during the setting process and with a disturbance signal of 80 % amplitude. The signal was modulated with a 1 kHz sine wave, pausing to adjust the RF signal level or the switch coupling devices as necessary. The sweep rate was 1.5 x 10-3 decades/s. Where the frequency range is swept incrementally, the step size was 1 % of preceding frequency value from 150 kHz to 80 MHz.

The dwell time at each frequency was less than the time necessary for the EUT to be exercised, and able to respond. Sensitive frequencies such as clock frequency(ies) and harmonics or frequencies of dominant interest, was analyzed separately.

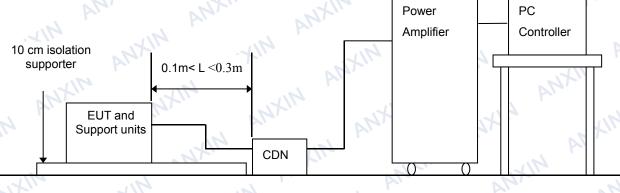
Attempts was made to fully exercise the EUT during testing, and to fully interrogate all exercise modes selected for susceptibility.

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7.7.3 TEST SETUP



Note: 1. The EUT is setup 0.1m above Ground Reference Plane

2. The CDNS and / or EM clamp used for real test depends on ports and cables configuration of EUT.

For the actual test configuration, please refer to the related item .

NOTE:

TABLE-TOP AND FLOOR-STANDING EQUIPMENT

The equipment to be tested is placed on an insulating support of 0.1 meters height above a ground reference plane. All relevant cables shall be provided with the appropriate coupling and decoupling devices at a distance between 0.1 meters and 0.3 meters from the projected geometry of the EUT on the ground reference plane.

7.7.4 TEST RESULTS

Temperature (°C)	22~28
Humidity (%RH)	50~57
Barometric Pressure (mbar)	950~1000
EUT	Cable Length Tester
M/N	NF-8601W
Operating Mode	Full Load
Test Results	PASS AN

Frequency Band (MHz)	Field Strength (Vrms)	Injected Position	Injection Method	Performance Criterion	Observation	Result
0.15 ~ 80	3	AC Mains	CDN-M2	A	Note ⊠ 1 □ 2	PASS
0.15 ~ 80	3 11	LAN(10m)	12 - 41	-Ar	Note 🗌 1 🗌 2	N/A

NOTE: 1. There was no change compared with initial operation during the test.2. The loss of function of the EUT during the test and it was recovered by itself operation after the test.

3.N/A means to no applicable.

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7.8 VOLTAGE DIP & VOLTAGE INTERRUPTIONS 7.8.1 TEST SPECIFICATION

Basic Standard: EN 61000-4-11 Test duration time: Interval between event: Phase Angle: Test cycle:

Minimum three test events in sequence Minimum 10 seconds 0 /45 / 90/ 135/ 180/ 225/ 270/ 315/ 360 3 times B, C

Performance criterion:

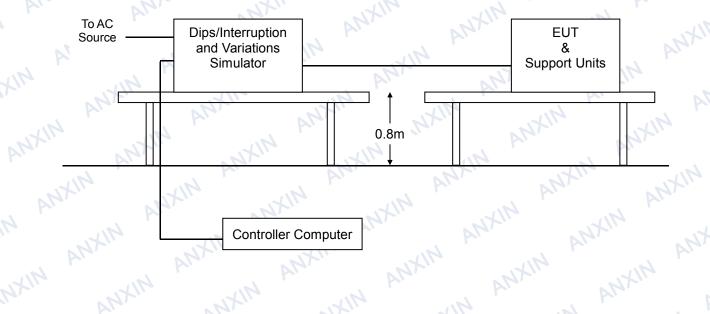
7.8.2 TEST PROCEDURE

- The EUT and support units were located on a wooden table, 0.8 m away from ground floor. 1.
- 2. Setting the parameter of tests and then perform the test software of test simulator.
- 3. Conditions changes to occur at 0 degree crossover point of the voltage waveform.
- Recording the test result in test record form. 4.

7.8.3 TEST SETUP

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For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.



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7.8.4 TEST RESULTS	10. M	Art	AN	ANX
Temperature (°C)	ANXIN	22~28	1XIN	р.
Humidity (%RH)	412	50~57	AR	P
Barometric Pressure (mbar)	IN AND	950~1000	ILA IL	KIN
EUT	ixin	Cable Length Te	ester	
M/N	PL.	NF-8601W	NXIII	NXIN
Operating Mode	JAIN	Full Load	la.	N.
Test Results	AL	PASS	ANXI	N
NR N	XII IXII		1	7 1

			NT'		A
Voltage (% Reduction)	Duration (Period)	Performance Criterion		Observation	Test Result
95	0.5	ΠA	BC	Note 🗌 1 🛛 2 🗌 3	PASS
30	25	A	□в⊠С	Note 🗌 1 🗌 2 🖂 3	PASS
95	250	A	□в⊠С	Note 🗌 1 🗌 2 🖂 3	PASS

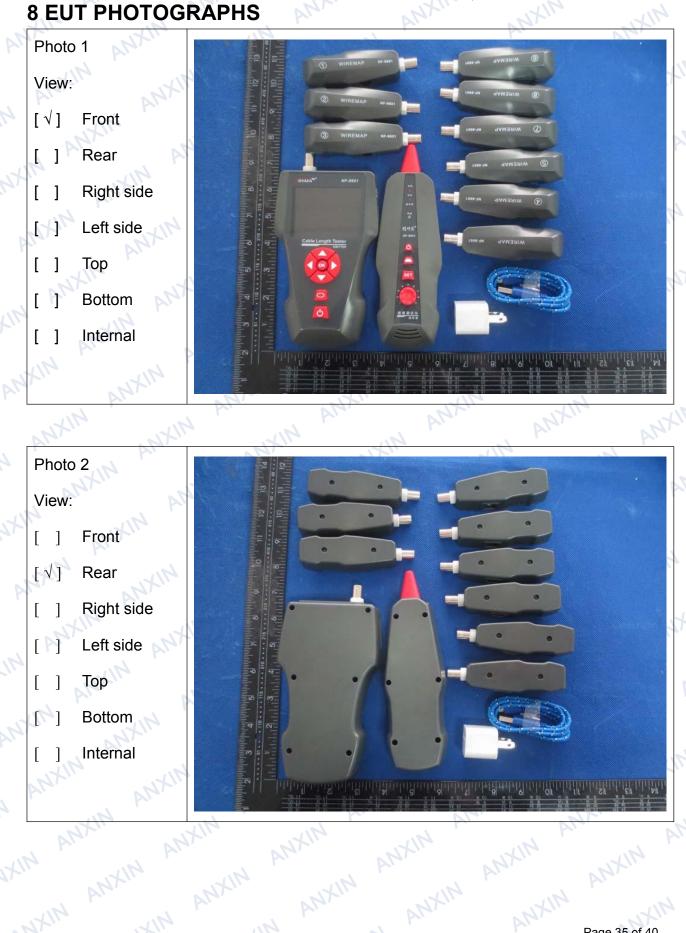
NOTE: 1. There was no change compared with initial operation during and after the test.

- 2. The function stopped during the test, but can be recoverable by itself operation after the test.
 3. The function stopped during the test, but can be recoverable manually after the test.



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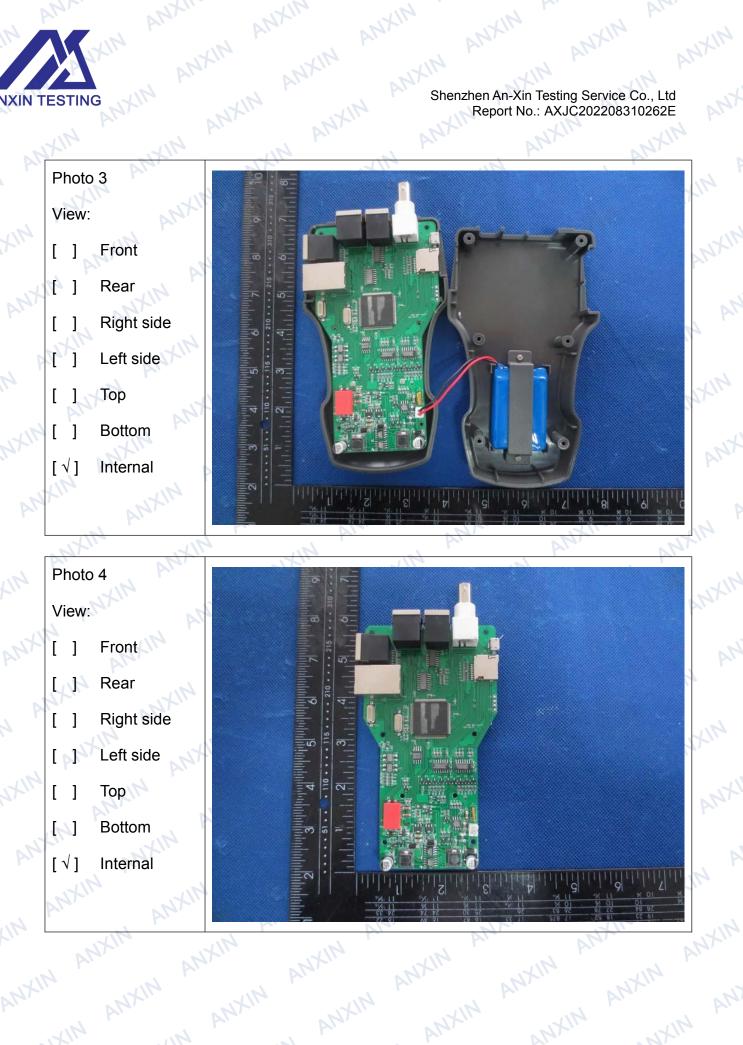
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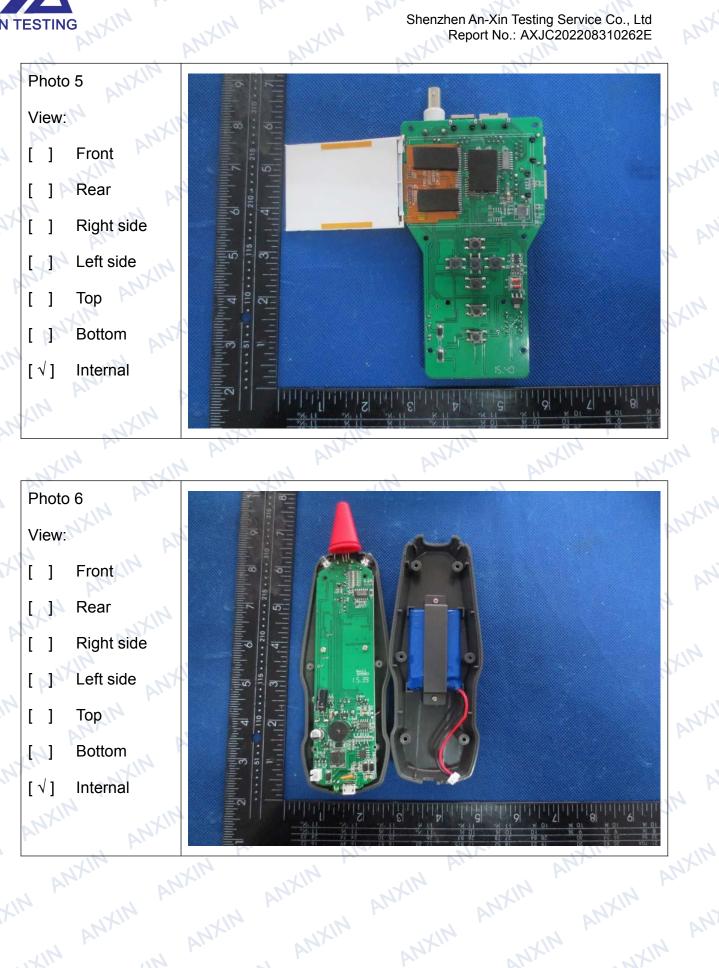
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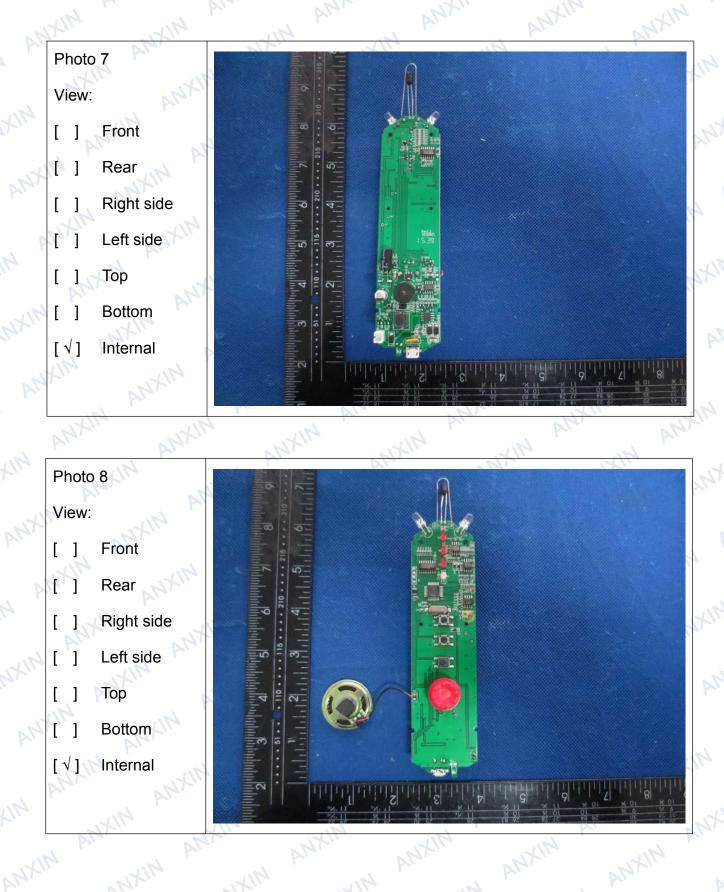
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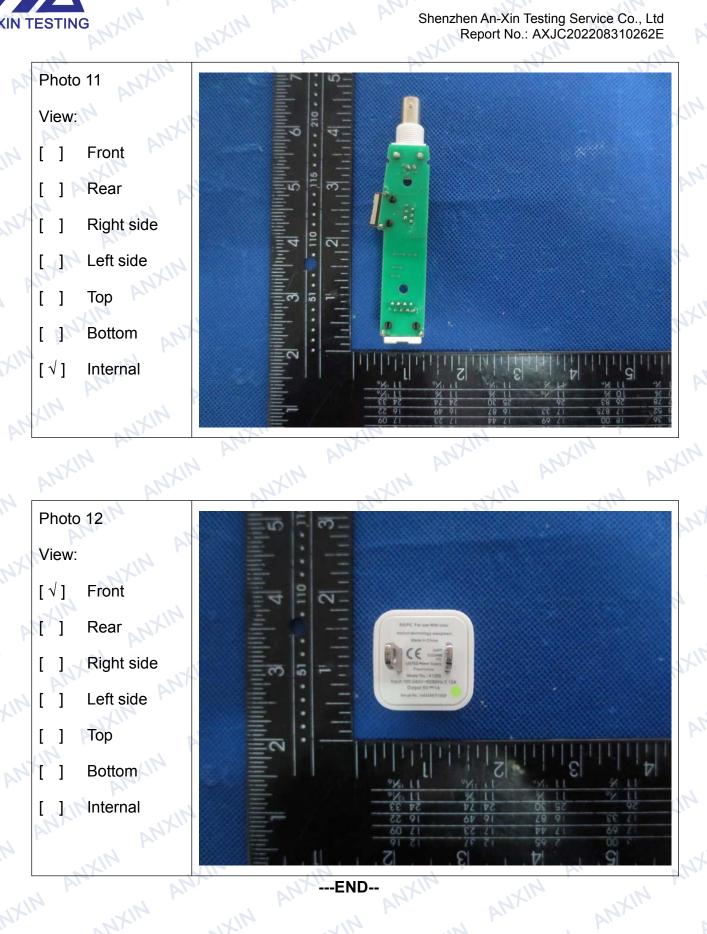
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