Report No.: AOC250508103E

	EMC TEST REPORT For
Huiya	ang Electric (Dongguan) Co.,Ltd.
	Air Water Generator
	Test Model: HYE-350A
	Additional Model No.: A370
Prepared for Address	 Huiyang Electric (Dongguan) Co.,Ltd. Room 601, Building 14, No.7 Keji Avenue, Houjie Town, Dongguan City, Guangdong Province
Prepared by Address	 Shenzhen AOCE Electronic Technology Service Co., Ltd. Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Cuanadana, China
Tel Fax Web Mail	Guangdong, China : (+86)755-85277785 : (+86)755-23705230 : www.aoc-cert.com : postmaster@aoc-cert.com
Date of receipt of test sample Number of tested samples Date of Test Date of Report	 April 28, 2025 1 April 28, 2025 ~ May 8, 2025 May 8, 2025

CE

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	EMC TEST REPORT EN IEC 55014-1: 2021	
Requirements for househol	d appliances, electric tools and simila	ar apparatus Part 1:
	Emission EN IEC 55014-2: 2021	
Requirements for househol	d appliances, electric tools and simila	ar apparatus Part 2:
	munity - Product family standard	
Report Reference No::		
Date Of Issue:	May 8, 2025	
	Shenzhen AOCE Electronic Techr	
	Room 202, 2nd Floor, No.12th Build Industrial Park, Fuhai Street, Baoan Guangdong, China	District, Shenzhen,
Testing Location/ Procedure :	Full application of Harmonised stand	dards ∎
	Partial application of Harmonised sta Other standard testing method	andards 🗆
Applicant's Name::	Huiyang Electric (Dongguan) Co.,	Ltd.
	Room 601, Building 14, No.7 Keji Av	
	Dongguan City, Guangdong Provinc	e
Test Specification:		
Standard:	EN IEC 55014-1: 2021 EN IEC 61000-3-2:2019+A1:2021+A	12:2024
	EN 61000-3-3:2013+A1:2019+A2:20	
	EN IEC 55014-2: 2021	
Test Report Form No:	AOCEEMC-1.0	
TRF Originator:	Shenzhen AOCE Electronic Techno	logy Service Co., Ltd.
Master TRF:	Dated 2017-05	
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Test Item Description::	Air Water Generator	
Trade Mark:	A370	
Test Model:		
Ratings	220-240V, 50/60Hz, 1350W	
Result:	Positive	
Compiled by:	Supervised by:	Approved by:
David Lik	Kevin Huang	Jackson Fang
David Liu/ File administrators	Kevin Huang/ Technique principal	Jackson Fang/ Manager
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EMC -- TEST REPORT

Test Report No. : AOC250508103E

May 8, 2025 Date of issue

Report No.: AOC250508103E

Test Model	: HYE-350A
EUT	: Air Water Generator
Applicant	: Huiyang Electric (Dongguan) Co.,Ltd.
	: Room 601, Building 14, No.7 Keji Avenue, Houjie Town, Dongguan City, Guangdong Province
Telephone	:/
Fax	:/
Manufacturer	: Huiyang Electric (Dongguan) Co.,Ltd.
Address	: Room 601, Building 14, No.7 Keji Avenue, Houjie Town, Dongguan City, Guangdong Province
Address	Dongguan City, Guangdong Province
	Dongguan City, Guangdong Province
Telephone	Dongguan City, Guangdong Province
Telephone Fax	Dongguan City, Guangdong Province
Telephone Fax	Dongguan City, Guangdong Province : / : /
Telephone Fax	Dongguan City, Guangdong Province : / : / : Huiyang Electric (Dongguan) Co.,Ltd.
Telephone Fax	Dongguan City, Guangdong Province : / : / : Huiyang Electric (Dongguan) Co.,Ltd. : Room 601, Building 14, No.7 Keji Avenue, Houjie Town, Dongguan City, Guangdong Province
Telephone Fax Factory Address	Dongguan City, Guangdong Province : / : / : Huiyang Electric (Dongguan) Co.,Ltd. : Room 601, Building 14, No.7 Keji Avenue, Houjie Town, Dongguan City, Guangdong Province : /
Telephone Fax Factory Address Telephone	Dongguan City, Guangdong Province : / : / : Huiyang Electric (Dongguan) Co.,Ltd. : Room 601, Building 14, No.7 Keji Avenue, Houjie Town, Dongguan City, Guangdong Province : /

Test Result according to the standards on page 8:	Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

	SSION (EN IEC 55014-1: 2021)		D. It
Description of Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	EN IEC 55014-1: 2021		PASS
Clicks measurement	EN IEC 55014-1: 2021		PASS
Disturbance Power	EN IEC 55014-1: 2021		PASS
Radiated disturbance	EN IEC 55014-1: 2021		N/A
Harmonic current emissions	EN IEC 61000-3-2: 2019+A1: 2021+A2: 2024	Class A	PASS
Voltage fluctuations & flicker	EN 61000-3-3: 2013+A1: 2019+A2: 2021+AC: 2022		PASS
IMM	UNITY (EN IEC 55014-2: 2021)		
Description of Test Item	Basic Standard	Performance Criteria	Results
Electrostatic discharge (ESD)	EN 61000-4-2: 2009	В	PASS
Radio-frequency, Continuous radiated disturbance	EN 61000-4-3: 2020	А	N/A
Electrical fast transient (EFT)	EN 61000-4-4: 2012	В	PASS
Surge (Input a.c. power ports)	EN 61000-4-5: 2014+A1: 2017	В	PASS
Radio-frequency, Continuous conducted disturbance	EN 61000-4-6: 2014	А	PASS
		А	N/A
Power frequency magnetic field	EN 61000-4-8: 2010	~	IN/A
Power frequency magnetic field Voltage dips, 60% reduction	EN 61000-4-8: 2010	C	PASS
	EN 61000-4-8: 2010 EN 61000-4-11: 2020		

Test mode:		
Mode 1	Normal operation	Record

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1.2.Description of Performance Criteria

General Performance Criteria

Examples of functions defined by the manufacturer to be evaluated during testing include, but are not limited to, the following:

- essential operational modes and states;

- tests of all peripheral access (hard disks, floppy disks, printers, keyboard, mouse, etc.);

- quality of software execution;
- quality of data display and transmission;
- quality of speech transmission.

1.2.1.Performance criterion A

The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacture when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be deliver from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

1.2.2.Performance criterion B

After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacture, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance.

During the test, degradation of performance is allowed. However, no change of operation state or stored data is allowed to persist after the test.

If the minimum performance level (or the permissible performance loss) is not specified by the manufacturer, then either of these may be deliver from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

1.2.3.Performance criterion C

Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacture's instructions.

Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be loss.

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

EUT	: Air Water Generator
Trade Mark	: N/A
Test Model	: HYE-350A
Power Supply	: 220-240V, 50/60Hz, 1350W

2.2.Test Facility

EMC Lab.

2.3. Statement of the Measurement Uncertainty

2

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the AOCE quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

2.4.Measurement Uncertainty

Test	Parameters	Expanded uncertainty (Ulab)	Expanded uncertainty (Ucispr)
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.63 dB ± 2.35 dB	± 3.8 dB ± 3.4 dB
Power Disturbance	Level accuracy (30MHz to 300MHz)	± 2.90dB	\pm 4.5 dB
Electromagnetic Radiated Emission (3-loop)	Level accuracy (9kHz to 30MHz)	± 3.60 dB	± 3.3 dB
Radiated Emission	Level accuracy (9kHz to 30MHz)	\pm 3.68 dB	N/A
Radiated Emission	Level accuracy (30MHz to 1000MHz)	± 3.48 dB	± 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	\pm 3.90 dB	\pm 5.2 dB
Mains Harmonic	Voltage	± 0.510%	N/A
Voltage Fluctuations & Flicker	Voltage	± 0.510%	N/A
EMF		± 21.59%	N/A

(1) Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.

(2) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

3. MEASURING DEVICES AND TEST EQUIPMENT

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Software	AUDIX	E3	/	N/A
2	EMI Test Receiver	R&S	ESPI	101840	2024/04/13
3	Artificial Mains	R&S	ENV216	101288	2024/04/13
4	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-003 2	2024/04/13
3.2.D	isturbance Power				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Software	AUDIX	E3	1	N/A
2	EMI Test Receiver	R&S	ESPI	101840	2024/04/13
3	Absorbing clamp	R&S	MDS 21	4033	2024/04/13
4	6dB Attenuator	/	/	50FP-006-H3B	2024/04/13
3.3.H	larmonic Current				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Power Analyzer Test System	Voltech	PM6000	20000670053	2024/04/13
3.4.V	oltage fluctuation and	Flicker			
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Power Analyzer Test System	Voltech	PM6000	20000670053	2024/04/13
	-	Voltech	PM6000	20000670053	2024/04/13
3.5.E	System	Voltech	PM6000 Model No.	20000670053 Serial No.	2024/04/13 Last Cal.
3.5.E	System lectrostatic Discharge				Last Cal.
3.5.E Item 1	System lectrostatic Discharge Test Equipment	Manufacturer SCHLODER	Model No.	Serial No.	Last Cal.
3.5.E Item 1 3.6.E	System lectrostatic Discharge Test Equipment ESD Simulator	Manufacturer SCHLODER	Model No.	Serial No.	Last Cal.
3.5.E Item 1	System lectrostatic Discharge Test Equipment ESD Simulator	Manufacturer SCHLODER t/Burst	Model No. SESD 230	Serial No. 604035 Serial No.	Last Cal. 2024/04/13 Last Cal.
3.5.E Item 1 3.6.E Item 1	System lectrostatic Discharge Test Equipment ESD Simulator lectrical Fast Transien Test Equipment Immunity Simulative	Manufacturer SCHLODER t/Burst Manufacturer	Model No. SESD 230 Model No.	Serial No. 604035 Serial No.	2024/04/13
3.5.E Item 1 3.6.E Item 1 3.7.S	System lectrostatic Discharge Test Equipment ESD Simulator lectrical Fast Transien Test Equipment Immunity Simulative Generator	Manufacturer SCHLODER t/Burst Manufacturer	Model No. SESD 230 Model No.	Serial No. 604035 Serial No.	Last Cal. 2024/04/13 Last Cal.
3.5.E Item 1 3.6.E Item 1	System lectrostatic Discharge Test Equipment ESD Simulator lectrical Fast Transien Test Equipment Immunity Simulative Generator	Manufacturer SCHLODER t/Burst Manufacturer EM TEST	Model No. SESD 230 Model No. UCS500 M4	Serial No. 604035 Serial No. 4 0101-34 Serial No.	Last Cal. 2024/04/13 Last Cal. 2024/04/13 Last Cal.
3.5.E Item 1 3.6.E Item 1 3.7.S Item 1	System lectrostatic Discharge Test Equipment ESD Simulator lectrical Fast Transien Test Equipment Immunity Simulative Generator Surge Test Equipment	Manufacturer SCHLODER t/Burst Manufacturer EM TEST Manufacturer EM test	Model No. SESD 230 Model No. UCS500 M4	Serial No. 604035 Serial No. 4 0101-34 Serial No.	Last Cal. 2024/04/13 Last Cal. 2024/04/13 Last Cal.
3.5.E Item 1 3.6.E Item 1 3.7.S Item 1 3.8.C	System lectrostatic Discharge Test Equipment ESD Simulator lectrical Fast Transien Test Equipment Immunity Simulative Generator Surge Test Equipment Surge test system	Manufacturer SCHLODER t/Burst Manufacturer EM TEST Manufacturer EM test	Model No. SESD 230 Model No. UCS500 M4	Serial No. 604035 Serial No. 4 0101-34 Serial No.	Last Cal. 2024/04/13 Last Cal. 2024/04/13
3.5.E Item 1 3.6.E Item 1 3.7.S Item 1 3.8.C	System lectrostatic Discharge Test Equipment ESD Simulator lectrical Fast Transien Test Equipment Immunity Simulative Generator Surge Test Equipment Surge test system	Manufacturer SCHLODER t/Burst Manufacturer EM TEST Manufacturer EM test	Model No. SESD 230 Model No. UCS500 M4 Model No. UCS500 M4	Serial No. 604035 Serial No. 4 0101-34 Serial No. 4 0101-34	Last Cal. 2024/04/13 Last Cal. 2024/04/13 Last Cal. 2024/04/13
3.5.E Item 1 3.6.E Item 1 3.7.S Item 1 3.8.C Item	System lectrostatic Discharge Test Equipment ESD Simulator lectrical Fast Transien Test Equipment Immunity Simulative Generator surge Test Equipment Surge test system Conducted Susceptibilit Test Equipment	Manufacturer SCHLODER t/Burst Manufacturer EM TEST Manufacturer EM test	Model No. SESD 230 Model No. UCS500 M4 UCS500 M4 UCS500 M4	Serial No. 604035 Serial No. 4 0101-34 4 0101-34 Serial No. 4 0101-34 Serial No. 4 0101-34 A 0101-34	Last Cal. 2024/04/13 Last Cal. 2024/04/13 Last Cal. 2024/04/13

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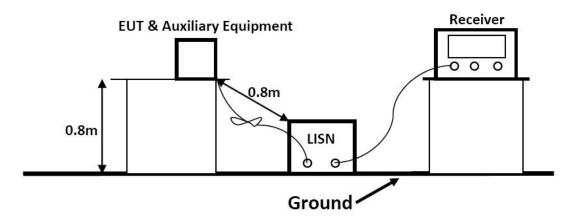
3.9.Voltage Dips

0.0.1	enage zipe				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Voltage dips and up generator	3CTEST	VDG-1105G	EC0171014	2024/04/13
3.10.	Voltage Short Interruptio	ns			
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Voltage dips and up generator	3CTEST	VDG-1105G	EC0171014	2024/04/13

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4. TEST RESULTS

- 4.1. Power Line Conducted Emission Measurement
- 4.1.1.Block Diagram of Test Setup



4.1.2. Power Line Conducted Emission Limits

(MHz) Quasi-peak Level Average Level 0.15 ~ 0.50 66.0 ~ 56.0 * 59.0 ~ 46.0 0.50 ~ 50.0 56.0 * 46.0		Frequency
	el	(MHz)
	*	0.15 ~ 0.50
0.50 ~ 5.00 56.0 46.0		0.50 ~ 5.00
5.00 ~ 30.00 60.0 50.0		5.00 ~ 30.00

Remark: * means decreasing linearly with logarithm of frequency.

4.1.3.EUT Configuration on Test

The following equipments are installed on Conducted Emission Measurement to meet EN IEC 55014–1 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

4.1.4. Operating Condition of EUT

- 4.1.4.1.Setup the EUT as shown on Section 4.1.1.
- 4.1.4.2.Turn on the power of all equipments.
- 4.1.4.3.Let the EUT work in measuring Mode 1 and measure it.

4.1.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and connected to the AC mains through a Line Impedance Stability Network (L.I.S.N). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are investigated to find out the maximum conducted emission according to the EN IEC 55014-1 regulations during conducted emission measurement.

The bandwidth of the field strength meter is set at 9kHz.

The frequency range from 150kHz to 30MHz is investigated. The scanning waveform please refer to the next page.

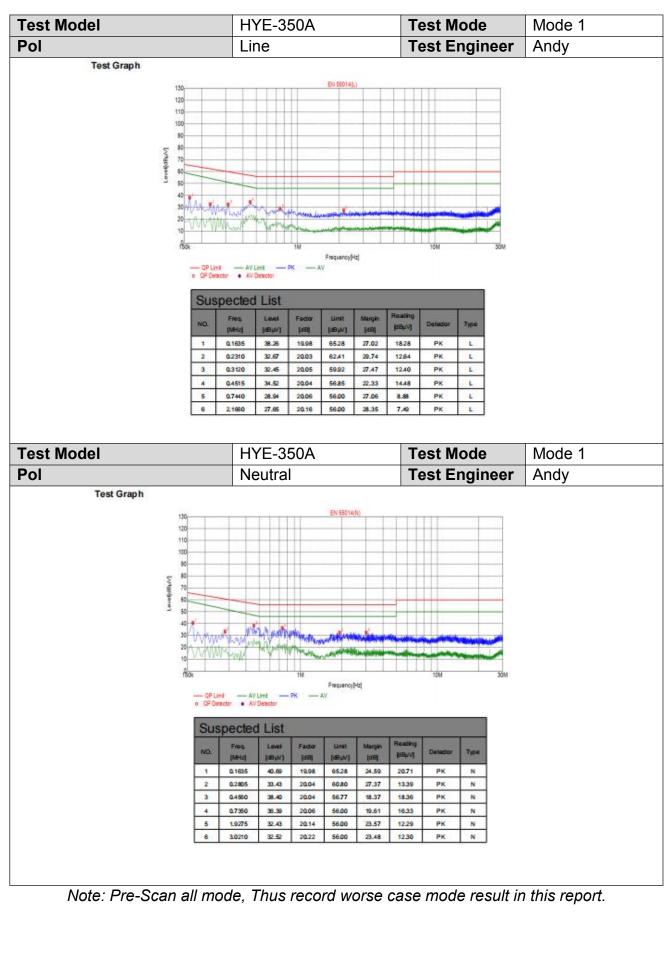
4.1.6.Test Results

PASS.

The frequency range 150kHz to 30MHz is investigated.



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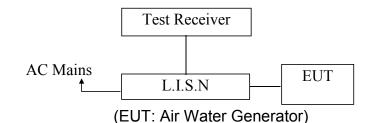


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4.2. Clicks Measurement

4.2.1.Block Diagram of Test Setup



4.2.2.Clicks Measurement Standard and limit

4.2.2.1.Test Standard EN IEC 55014-1: 2021

4.2.2.2.Test Limit

According to standard EN IEC 55014-1, if click rate (N) less 5/min and the time of this discontinuous disturbances does not exceed 10ms, then the limit value are omitted.

4.2.3.EUT Configuration on Test

The configuration of EUT is same as Section 4.2.1.

4.2.4. Operating Condition of EUT

4.2.4.1.Setup the EUT as shown Section 4.2.1.

4.2.4.2.Turn on the power of all equipments.

4.2.4.3. After that, let EUT work in test Mode 1 and measure it.

4.2.5.Test Procedure

This test is done when switch operations in thermostatically controlled appliances, automatic program controlled machines and other electrically controlled or operated appliances may generate discontinuous disturbance (Click). The measurement of disturbance shall be performed at the following restricted number of frequencies: 150kHz, 500kHz, 1.4MHz and 30MHz. At each frequency, for appliances which stop automatically, duration of the minimum number of complete programs necessary to produce 40 counted clicks or, where relevant, 40 counted clicks have not been produced, the test is stopped at the end of the program in course. The relevant click rate N. The appliance under test shall be deemed to comply with the limit if not more than a quarter of the number of the counted click registered during the observation time.

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4.2.6.Test Results

PASS.

The click rate (N=1/2.1=0.48<5) of the EUT is less than 5/min and the time of this discontinuous disturbances (\triangle T=4ms<10ms) does not exceed 10ms.According to EN IEC 55014-1, the limit values are omitted.

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4.3. Disturbance Power Measurement

4.3.1.Block Diagram of Test Setup

Test Receiver

4.3.2.Test Standard

EN IEC 55014-1: 2021

4.3.3.Disturbance Power Limits

All emanations from devices or system including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified below:

Frequency	Limits dB(pW)		
MHz	Quasi-peak Value	Average Value	
30 ~ 300	45 Increasing Linearly	35 Increasing Linearly	
	with Frequency to 55	with Frequency to 45	

	Househo similar ap				Tools			
1	2	3	4	5	6	7	8	9
Frequen cy range			Rated moto not exceeding		Rated moto above 700 V exceeding	V and not	Rated mot above 1	
(MHz)	dB (pW) Quasi-pea k	dB (pW) Average	dB (pW) Quasi-pea k	dB (pW) Averag e	dB (pW) Quasi-pea k	dB (pW) Averag e	dB (pW) Quasi-pe ak	dB (pW) Averag e
		Incre	easing linearly	with the fi	requency fron	า:		
200 to 300	0 to 10 dB	-	0 to 10 dB	-	0 to 10 dB	-	0 to 10 dB	-
NOTE 1 This table only applies if specified in 4.1.2.3.2. NOTE 2 The measured result at a particular frequency shall be less than the relevant limit minus the corresponding margin (at that frequency).								

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4.3.4.EUT Configuration on Test

The EN IEC 55014-1 Regulations test method must be used to find the maximum emission during radiated emission measurement. The configuration of the EUT is the same as used in conducted emission measurement.

4.3.5.Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section 4.1.1 except the test set up replaced as Section 4.3.1.

4.3.6.Test Procedure

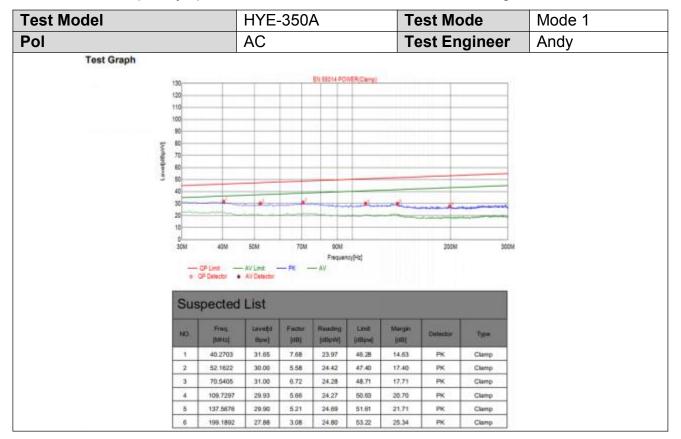
The EUT is placed on the plane 0.8m high above the ground by insulating support and away from other metallic surface at least 0.4m. It is connected to the power mains through an extension cord of 6m min. The absorber clamp clamps the cord and moves from the far end to the EUT to measure the disturbing energy emitted from the cord.

The bandwidth of the field strength meter is set at 120kHz. All the test results are listed in Section 4.3.7.

4.3.7.Test Results

PASS.

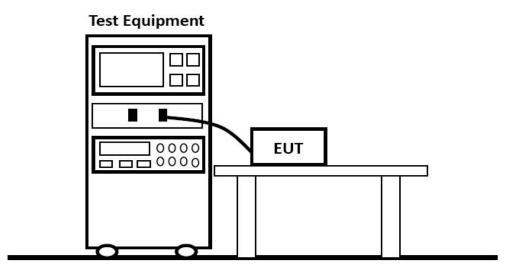
The frequency spectrum from 30 MHz to 300 MHz is investigated.



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4.4. Harmonic Current Emission Measurement

4.4.1.Block Diagram of Test Setup



4.4.2.Test Standard

EN IEC 61000-3-2: 2019+A1: 2021+A2: 2024, Class A

4.4.3.Operation Condition of EUT

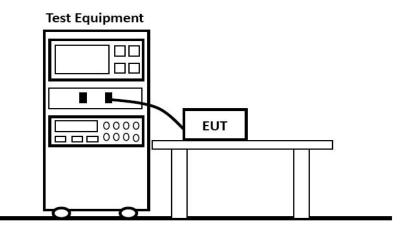
Same as Section 4.1.4 except the test setup replaced as Section 4.4.1.

4.4.4.Test Results

PASS

4.5. Voltage Fluctuation And Flicker Measurement

4.5.1.Block Diagram of Test Setup



4.5.2.Test Standard

EN 61000-3-3: 2013+A1: 2019+A2: 2021+AC: 2022

4.5.3. Operation Condition of EUT

4.5.3.1.Setup the EUT as shown Section 4.5.1.

4.5.3.2. Turn on the power of all equipments.

4.5.3.3.Let EUT work in test mode (On/Off) and measure it.

4.5.4.Test Results

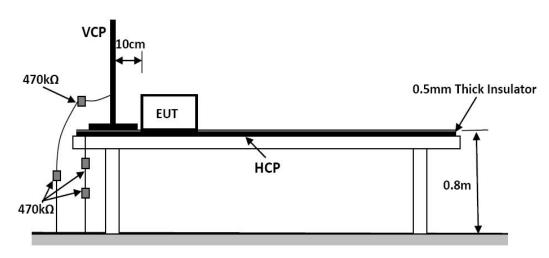
PASS.

Test Model	t Model HYE-350A		Test Engineer	Andy
Overall Result:	Notes:			
	Measurement method	I - Voltage		
PASS				
	The second secon			
	Pst	dc (%)	dmax (%)	d(t) > 3.3%(ms)
Linsit	Pst	dc (%)	dmax (%)	d(t) > 3.3%(ms)
Limit Reading 1	Pst 1.000	dc (%) 3.300	dmax (%) 4.000	d(t) > 3.3%(ms) 500

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4.6. Electrostatic Discharge Immunity Test

4.6.1.Block Diagram of Test Setup



4.6.2.Test Standard

EN IEC 55014-2: 2021(EN 61000-4-2: 2009, Severity Level: 3 / Air Discharge: ±8KV; Level: 2 / Contact Discharge: ±4KV)

4.6.3. Severity Levels and Performance Criterion

4	63	1 S	ever	itv∣	level
т.	0.0.	1.0	0,001	ILY	

Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1.	±2	±2
2.	±4	±4
3.	±6	±8
4.	±8	±15
Х	Special	Special

4.6.3.2.Performance criterion: B

4.6.4.EUT Configuration on Test

The configuration of EUT are listed in Section 4.6.1.

4.6.5.Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section 4.1.4, except the test set up replaced by Section 4.6.1.

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4.6.6.Test Procedure

4.6.6.1.Air Discharge

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

4.6.6.2.Contact Discharge

All the procedure shall be same as Section 4.6.6.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

4.6.6.3. Indirect Discharge For Horizontal Coupling Plane

At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the center point of each unit (if applicable) of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

4.6.6.4. Indirect Discharge For Vertical Coupling Plane

At least 10 single discharges (in the most sensitive polarity) shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

4.6.7.Test Results

PASS.

Please refer to the next page.

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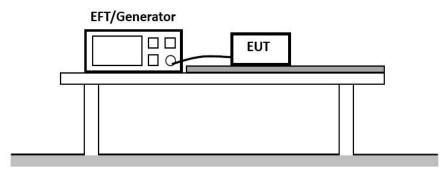
Electrostatic Discharge Test Results				
Standard	□ IEC 61000-4-2 ☑ EN 61000-	□ IEC 61000-4-2 ☑ EN 61000-4-2		
Applicant	Huiyang Electric (Dongguan) Co.,Ltd.			
EUT	Air Water Generator Temperature 25 °C			
M/N	HYE-350A	Humidity	50%	
Criterion	В	Pressure	1021mbar	
Test Mode	Mode 1	Test Engineer	Andy	

		A	ir Discharg	e		
		Test Level		Results		lts
Test Points	± 2kV	± 4kV	± 8kV	Passed	Fail	Performance Criterion
Front	\square	\boxtimes	\boxtimes			
Back	\square	\boxtimes	\boxtimes			
Left	\square	\boxtimes	\boxtimes			□ A ⊠ B
Right		\boxtimes	\boxtimes			
Тор	\square	\boxtimes	\boxtimes			
Bottom		\boxtimes	\square			
		Con	tact Discha	rge		
	•	Test Level	s		Resul	ts
Test Points	± 2 kV	,	±4 kV	Passed	Fail	Performance Criterion
Front			\boxtimes			
Back			\square			□ A ⊠ B
Left			\square			
Right			\boxtimes			
Тор			\boxtimes			
Bottom			\boxtimes	\square		
		Discha	rge To Horiz	zontal Coupl	ling Plane	•
		Test Level	s		Resul	ts
Side of EUT	± 2 kV	,	± 4 kV	Passed	Fail	Performance Criterion
Front	\square		\square			
Back	\square		\bowtie			
Left			\boxtimes			
Right			\boxtimes			
	Dis	scharge To	Vertical Co	oupling Plan	е	
		Tes	t Levels		Resu	
Side of EUT	± 2 kV	/	± 4 kV	Passed	Fail	Performance Criterion
Front	\square		\square			
Back	\square		\boxtimes			
Left						
Right	\square		\boxtimes			

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4.7. Electrical Fast Transient/Burst Immunity Test

4.7.1.Block Diagram of Test Setup



4.7.2.Test Standard

EN IEC 55014-2: 2021 (EN 61000-4-4: 2012, Severity Level: Level 2: 1KV)

4.7.3. Severity Levels and Performance Criterion

4.7.3.1.Severity level

(Open Circuit Output Test Voltage ± 10%				
Level	On Power Supply	On I/O (Input/Output)			
	Lines	Signal data and control			
		lines			
1.	0.50KV	0.25KV			
2.	1.00KV	0.50KV			
3.	2.00KV	1.00KV			
4.	4.00KV	2.00KV			
X	Special	Special			

4.7.3.2.Performance criterion: B

4.7.4.EUT Configuration on Test

The configuration of EUT are listed in Section 4.7.1.

4.7.5. Operating Condition of EUT

4.7.5.1.Setup the EUT as shown in Section 4.7.1.

4.7.5.2. Turn on the power of all equipments.

4.7.5.3.Let the EUT work in test Mode 1 and measure it.

4.7.6.Test Procedure

The EUT is put on the table which is 0.8 meter high above the ground. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

4.7.6.1.For input and output AC power ports:

The EUT is connected to the power mains by using a coupling device which couples the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 mins.

4.7.6.2. For signal lines and control lines ports:

No I/O ports. It's unnecessary to test.

4.7.6.3. For DC output line ports:

No DC output ports. It's unnecessary to test.

4.7.7.Test Results

PASS.

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Shenzhen AOCE Electronic Technology Service Co., Ltd.

	Electrical Fast	Transient/Burst	Test Results
--	------------------------	-----------------	--------------

Standard	□ IEC 61000-4-4 ☑ EN 61000-4-4				
Applicant	Huiyang Electric (Dongguan) Co.,Ltd.				
EUT	Air Water Generator Temperature 25°C				
M/N	HYE-350A	Humidity	50%		
Test Mode	Mode 1	Criterion	В		
Test Engineer	Andy				

Line	Test Voltage	Result (+)	Result (-)
L	1KV	PASS	PASS
N	1KV	PASS	PASS
PE			
L-N	1KV	PASS	PASS
L-PE			
N-PE			
L-N-PE			
Signal Line			
I/O Cable			

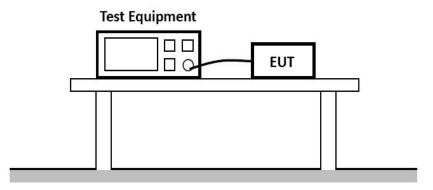
Note:

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4.8. Surge Immunity Test

4.8.1.Block Diagram of Test Setup



4.8.2.Test Standard

EN IEC 55014-2: 2021

(EN 61000-4-5: 2014+A1 : 2017, Severity Level: Level 2, Line to Line: 1.0KV; Level 3: Line to Ground: 2.0KV)

4.8.3. Severity Levels and Performance Criterion

4.8.3.1.Severity level

Severity Level	Open-Circuit Test Voltage
	(KV)
1	0.5
2	1.0
3	2.0
4	4.0
Х	Special

4.8.3.2.Performance criterion: B

4.8.4.EUT Configuration on Test

The configuration of EUT are listed in Section 4.8.1.

4.8.5.Operating Condition of EUT

4.8.5.1. Setup the EUT as shown in Section 4.8.1.

4.8.5.2. Turn on the power of all equipments.

4.8.5.3.Let the EUT work in test Mode 1 and measure it.

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4.8.6.Test Procedure

4.8.6.1.Set up the EUT and test generator as shown on Section 4.8.1.

4.8.6.2. For line to line coupling mode, provide a 1.0 KV 1.2/50us voltage surge

(at open-circuit condition) and 8/20us current surge to EUT selected points.

4.8.6.3. At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test

4.8.6.4.Different phase angles are done individually.

4.8.6.5.Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

4.8.7.Test Results

PASS.

Please refer to the following pages

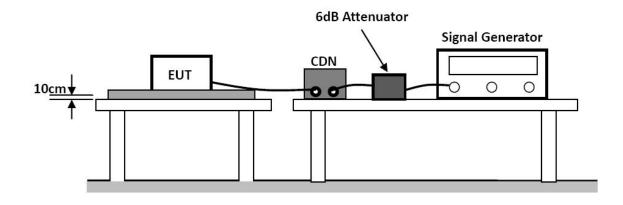
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Surge Immunity Test Result					
Standard	□ IEC 610	□ IEC 61000-4-5 ☑ EN 61000-4-5			
Applicant	Huiyang Ele	ectric (Dongg	uan) Co.,Ltd.		
EUT	Air Water G	enerator		Temperature	25 ℃
M/N	HYE-350A			Humidity	50%
Test Mode	Mode 1			Criterion	В
Test Engineer	Andy				
Location	Polarity	Phase Angle	Number of Pulse	Pulse Voltage (KV)	Result
L-N L-PE	+	90° 270°	5 5 		PASS PASS
N-PE					
Signal Line					
Note					

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4.9. Injected Currents Susceptibility Test

4.9.1.Block Diagram of Test Setup



4.9.2.Test Standard

EN IEC 55014-2: 2021(EN 61000-4-6: 2014, Severity Level: 3V (rms), (0.15MHz ~ 230MHz))

4.9.3. Severity Levels and Performance Criterion

4.9.3.1.Severity level

Level	Field Strength (V)	
1	1	
2	3	
3	10	
X	Special	

4.9.3.2.Performance criterion: A

4.9.4.EUT Configuration on Test

The configuration of EUT are listed in Section 4.9.1.

4.9.5. Operating Condition of EUT

4.9.5.1. Setup the EUT as shown in Section 4.9.1.

4.9.5.2. Turn on the power of all equipments.

4.9.5.3.Let the EUT work in test Mode 1 and measure it.

4.9.6.Test Procedure

4.9.6.1.Set up the EUT, CDN and test generators as shown on Section 4.9.1.

4.9.6.2.Let the EUT work in test mode and measure it.

4.9.6.3.The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).

4.9.6.4. The disturbance signal described below is injected to EUT through CDN.

4.9.6.5.The EUT operates within its operational mode(s) under intended climatic conditions after power on.

4.9.6.6.The frequency range is swept from 150kHz to 230MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1kHz sine wave.

4.9.6.7.The rate of sweep shall not exceed 1.5*10-3 decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.

4.9.6.8.Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

4.9.7.Test Results

PASS.

Please refer to the following pages

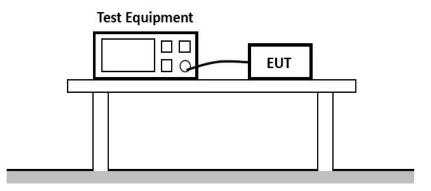
Injected Currents Susceptibility Test Results			
Standard	□ IEC 61000-4-6		
Applicant	Huiyang Electric (Dongguan) Co.,Ltd.		
EUT	Air Water Generator	Temperature	25 ℃
M/N	HYE-350A	Humidity	50%
Test Mode	Mode 1	Criterion	А
Test Engineer	Andy		

Frequency Range (MHz)	Injected Position	Strength (Unmodulated)	Criterion	Result		
0.15 ~ 230	AC Mains	3V	A	PASS		
2. Measurement E Simulator: C CDN : ☑	1. Modulation Signal:1kHz 80% AM 2. Measurement Equipment : Simulator: CIT-10 (FRANKONIA)					
□ Note:	CDN-M3 (SWITZ	ZERLAND EMTES	ST)			
4						

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4.10. Voltage Dips And Interruptions Test

4.10.1.Block Diagram of Test Setup



4.10.2.Test Standard

EN IEC 55014-2: 2021 (EN 61000-4-11: 2020)

4.10.3. Severity Levels and Performance Criterion

4.10.3.1.Severity level

Test Level (%U⊤)	Voltage dip and short interruptions (%UT) Duration (in period)		
0	100	0.5	0.6
40	60	10	12
70	30	25	60

4.10.3.2.Performance criterion: C&C

4.10.4.EUT Configuration on Test

The configuration of EUT are listed in Section 4.10.1.

4.10.5. Operating Condition of EUT

4.10.5.1.Setup the EUT as shown in Section 4.10.1.

4.10.5.2.Turn on the power of all equipments.

4.10.5.3.Let the EUT work in test Mode 1 and measure it.

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4.10.6.Test Procedure

4.10.6.1.Set up the EUT and test generator as shown on Section 4.10.1.

4.10.6.2. The interruptions is introduced at selected phase angles with specified duration.

4.10.6.3.Record any degradation of performance.

4.10.7.Test Results

PASS.

Please refer to the following page.

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Voltage Dips And Interruptions Test Results			
Standard	□ IEC 61000-4-11 ☑ EN 61000-4-11		
Applicant	Huiyang Electric (Dongguan) Co.,Ltd.		
EUT	Air Water Generator	Temperature	25 ℃
M/N	HYE-350A	Humidity	50%
Test Mode	Mode 1	Criterion	C&C
Test Engineer	Andy		

Test Level	Voltage Dips & Short Interruptions	Duration (in periods)		Criterion	Result
% U _T	% U _T	50Hz	60Hz		
40	60	10P	12P	С	PASS
70	30	25P	60P	С	PASS
0	100	0.5P	0.6P	С	PASS

Note:

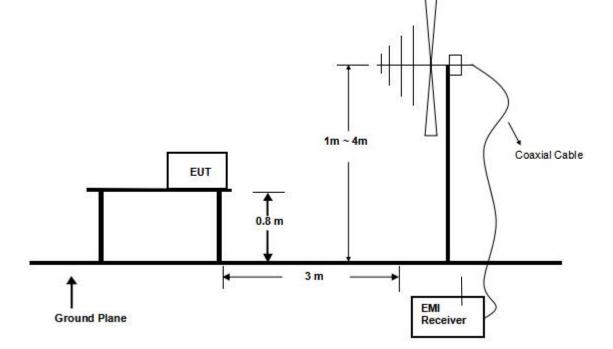
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5. RADIATED EMISSION MEASUREMENT

5.1.Block Diagram of Test Setup



5.2.Measuring Standard EN IEC 55014-1:2017+A11:2020

5.3.Radiated Emission Limits

EN 55032: 2015 Limits:

All emanations from a class B device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY	DISTANCE	FIELD STRENGTHS LIMIT
(MHz)	(Meters)	$(dB\mu V/m)$
30~230	3	40
230~1000	3	47

Note:

1. The smaller limit shall apply at the combination point between two frequency bands.

2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

5.4.EUT Configuration on Test

The EN 55032 regulations test method must be used to find the maximum emission during radiated emission measurement.

5.5.Operating Condition of EUT

4.5.1 Turn on the power.

4.5.2 After that, let the EUT work in test mode (ON) and measure it.

5.6.Test Procedure

The EUT is placed on a turntable, which is 0.8 meter high above the ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. By-log antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

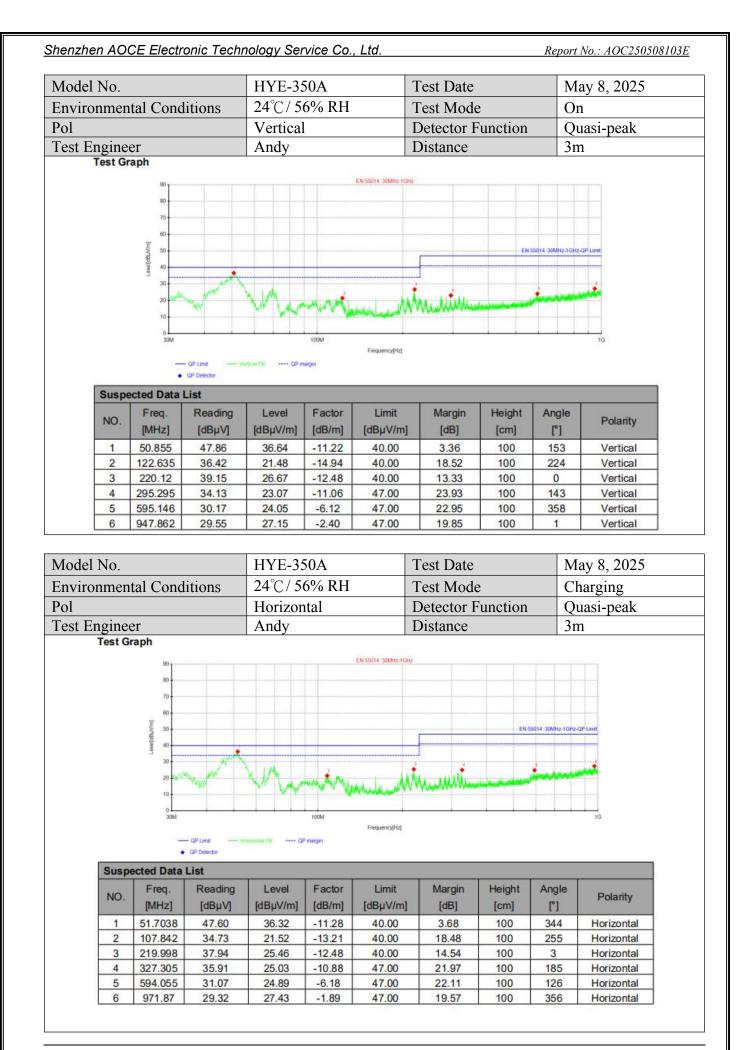
The bandwidth of the Receiver is set at 120kHz.

The frequency range from 30MHz to 1000MHz is investigated.

5.7.Test Results

PASS.

The test result please refer to the next page.



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6. PHOTOGRAPHS OF TEST SETUP

6.1. Photo of Power Line Conducted Measurement



6.2. Photo of Disturbance Power Measurement



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7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

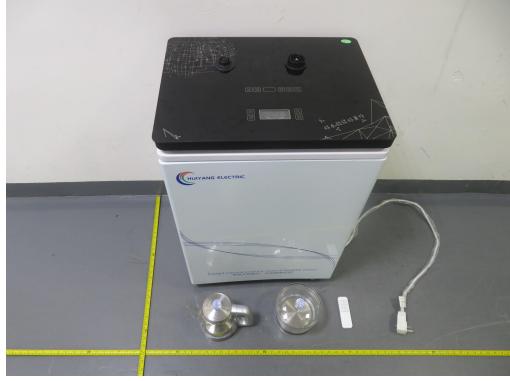


Fig.1

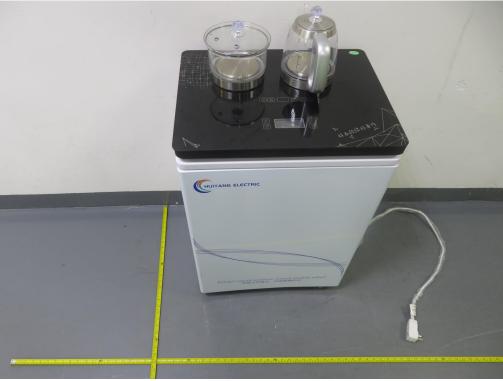


Fig.2

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Fig.3



Fig.4

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Fig.5

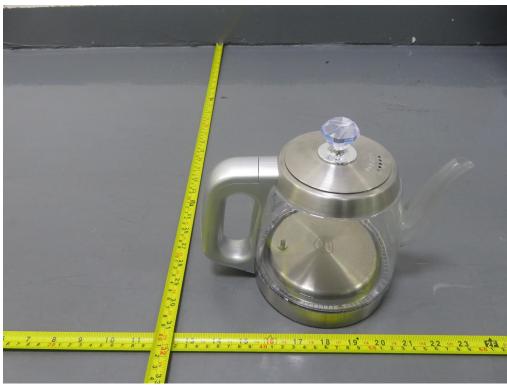


Fig.6

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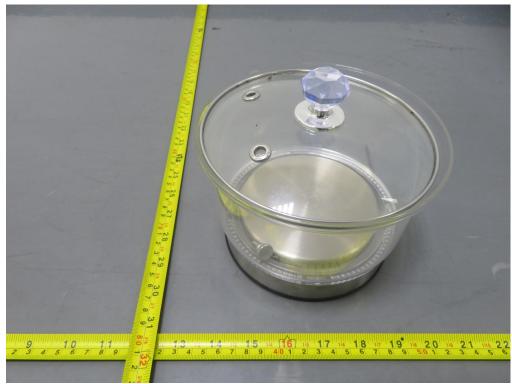


Fig.7



Fig.8

-----THE END OF TEST REPORT------

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