

TEST REPORT

Application No.: GZEM2204002013HS

Applicant:

Address of Applicant:

Manufacturer:

Address of Manufacturer:

Factory:

Address of Factory:

Equipment Under Test (EUT):

EUT Name: Rice Cooker

Model No.: See page 2 below

Standard(s) : EN IEC 55014-1: 2021

EN IEC 55014-2: 2021

EN 61000-3-3: 2013+A1: 2019

EN IEC 61000-3-2: 2019+A1:2021

Date of Receipt: 2022-04-21

Date of Test: 2022-04-22 to 2022-04-25

Date of Issue: 2022-05-19

Test Result:

Pass*

* In the configuration tested, the EUT complied with the standards specified above.

This report GZEM220400201302 supersedes the previous report GZEM220400201301, issued on 2022-04-29 which is hereby deemed null and void.

Kobe Jian
EMC Laboratory Manager



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Model No.:

RC06A-*yz, BRC06A-*yz, RC06B-*yz, BRC06B-*yz, RC08-*yz, RC10A-*yz, BRC10A-*yz, LRC10A-*yz, RC10B-*yz, BRC10B-*yz, LRC10B-*yz, RC12A-*yz, BRC12A-*yz, LRC12A-*yz, RC12B-*yz, BRC12B-*yz, LRC12B-*yz, RC15A-*yz, BRC15A-*yz, LRC15A-*yz, RC15B-*yz, BRC15B-*yz, LRC15B-*yz, RC18A-*yz, BRC18A-*yz, LRC18A-*yz, RC18B-*yz, BRC18B-*yz, LRC18B-*yz, RC18C-*yz, BRC18C-*yz, LRC18C-*yz, RC22A-*yz, BRC22A-*yz, LRC22A-*yz, RC22B-*yz, BRC22B-*yz, LRC22B-*yz, RC22C-*yz, BRC22C-*yz, LRC22C-*yz, RC28A-*yz, BRC28A-*yz, LRC28A-*yz, RC28B-*yz, BRC28B-*yz, LRC28B-*yz, RC28C-*yz, BRC28C-*yz, LRC28C-*yz, RC36A-*yz, RC36B-*yz, RC42A-*yz, RC42B-*yz, RC56A-*yz, RC56B-*yz, RC78A-*yz, RC78B-*yz, RC80A-*yz, RC80B-*yz, RC85A-*yz, RC100C-*yz, RC120C-*yz, RC85B-*yz, RC100A-*yz, RC100B-*yz, RC120A-*yz, RC120B-*yz, SRC06a-*xyz, SRC06a1-*xyz, SRC10a-*xyz, SRC10a1-*xyz, SRC12a-*xyz, SRC12a1-*xyz, SRC15a-*xyz, SRC15a1-*xyz, SRC18a-*xyz, SRC18a1-*xyz, SRC18a2-*xyz, SRC22a-*xyz, SRC22a1-*xyz, SRC28a-*xyz, SRC28a1-*xyz, SRC28a2-*xyz, DRC10a-*xmz, DRC10a1-*xmz, DRC12a-*xmz, DRC12a1-*xmz, DRC15a-*xmz, DRC15a1-*xmz, DRC18a-*xmz, DRC18a1-*xmz, DRC22a-*xmz, DRC22a1-*xmz, DRC28a-*xmz, DRC28a1-*xmz, DRC28a2-*xmz, DRC28a3-*xmz, DRC32a-*xmz, DRC32a1-*xmz, DRC32a2-*xmz, DRC36a-*xmz, DRC36a1-*xmz, DRC36a2-*xmz

a = C, S or O, indicates difference bottom enclosure. C means metal enclosure. S means plastic enclosure, O means One-piece shell.

* = A to U, a to z, indicates difference control panel.

x = V, W or P, indicates difference pattern of the appearance. V means stainless steel. W means coated steel. P means coated steel with painted pattern.

y = X or Y, indicates difference connection. X means the appliance was with appliance inlet. Y means the appliance was type Y attachment.

m = A to V, indicates difference handle.

z = 1, 2 or 3, indicates difference electric circuit.

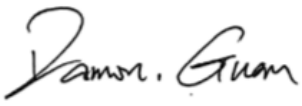
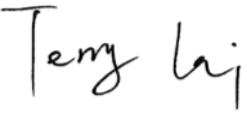


Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.



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Revision Record			
Version	Report No.	Date	Remark
01	GZEM220400201301	2022-04-29	Original (Null)
02	GZEM220400201302	2022-05-19	Amendment Report: Add new Model No. (* = Q to U, m = P to V) and update electric circuit difference

Authorized for issue by:			
			
		Damon Guan/Project Engineer	
			
		Terry Lai/Reviewer	



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	EN IEC 55014-1: 2021	CISPR 16-2-1	Table 5	Pass
Discontinuous Disturbance (150kHz-30MHz)		EN IEC 55014-1: 2021	Clause 4.4.2	Pass
Disturbance Power		CISPR 16-2-2	Table 7 & 8	Pass
Harmonic Current Emission	EN IEC 61000-3-2: 2019+A1:2021	EN IEC 61000-3-2: 2019+A1:2021	Class A	Pass
Voltage Fluctuations and Flicker	EN 61000-3-3: 2013+A1: 2019	EN 61000-3-3: 2013+A1: 2019	Clause 5	Pass

Immunity Part				
Immunity	Standard	Method	Requirement	Result
Immunity	EN IEC 55014-2: 2021	EN IEC 55014-2: 2021	Clause 7.2.2	Pass

There is no EMS test requirement, since the EUT belongs to Category I of EN IEC 55014-2: 2021.

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

♣ Model	Rated Power (W)	Rated Capacity (L)	Fixed supply cord	Appliance inlet	Thermostat (temperature limiter)	Thermostat (keep warm function)	Keep warm heater
RC06A-*yz BRC06A-*yz	300	0,6L	Yes	Yes	Yes	Yes	Yes
RC06B-*yz BRC06B*yz	350	0,6L	Yes	Yes	Yes	Yes	Yes
RC08-*yz	350	0,8L	Yes	Yes	Yes	Yes	Yes
RC10A-*yz BRC10A-*yz LRC10A-*yz	400	1,0L	Yes	Yes	Yes	Yes	Yes
RC10B-*yz BRC10B-*yz LRC10B-*yz	450	1,0L	Yes	Yes	Yes	Yes	Yes
RC12A-*yz BRC12A-*yz LRC12A-*yz	400	1,2L	Yes	Yes	Yes	Yes	Yes



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RC12B-*yz BRC12B-*yz LRC12B-*yz	450	1,2L	Yes	Yes	Yes	Yes	Yes
RC15A-*yz BRC15A-*yz LRC15A-*yz	500	1,5L	Yes	Yes	Yes	Yes	Yes
RC15B-*yz BRC15B-*yz LRC15B-*yz	550	1,5L	Yes	Yes	Yes	Yes	Yes
RC18A-*yz BRC18A-*yz LRC18A-*yz	700	1,8L	Yes	Yes	Yes	Yes	Yes
RC18B-*yz BRC18B-*yz LRC18B-*yz	650	1,8L	Yes	Yes	Yes	Yes	Yes
RC18C-*yz BRC18C-*yz LRC18C-*yz	750	1,8L	Yes	Yes	Yes	Yes	Yes
RC22A-*yz BRC22A-*yz LRC22A-*yz	900	2,2L 2.5L	Yes	Yes	Yes	Yes	Yes
RC22B-*yz BRC22B-*yz LRC22B-*yz	850	2,2L 2.5L	Yes	Yes	Yes	Yes	Yes
RC22C-*yz BRC22C-*yz LRC22C-*yz	950	2,2L 2.5L	Yes	Yes	Yes	Yes	Yes
RC28A-*yz BRC28A-*yz LRC28A-*yz	1000	2,8L	Yes	Yes	Yes	Yes	Yes
RC28B-*yz BRC28B-*yz LRC28B-*yz	950	2,8L	Yes	Yes	Yes	Yes	Yes
RC28C-*yz BRC28C-*yz LRC28C-*yz	900	2,8L	Yes	Yes	Yes	Yes	Yes
RC36A-*yz	1300	3,6L	Yes	No	Yes	Yes	No
RC36B-*yz	1250	3,6L	Yes	No	Yes	Yes	No
RC42A-*yz	1600	4,2L	Yes	No	Yes	Yes	No
RC42B-*yz	1550	4,2L	Yes	No	Yes	Yes	No
RC56A-*yz	2000	5,6L	Yes	No	Yes	Yes	No



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RC56B-*yz	1950	5,6L	Yes	No	Yes	Yes	No
RC78A-*yz	2200	7,8L	Yes	No	Yes	Yes	No
RC78B-*yz	2250	7,8L	Yes	No	Yes	Yes	No
RC80A-*yz	2500	8,0L	Yes	No	Yes	Yes	No
RC80B-*yz	2250	8,0L	Yes	No	Yes	Yes	No
RC85A-*yz	2800	8,5L	Yes	No	Yes	Yes	No
RC100C-*yz	2800	10L	Yes	No	Yes	Yes	No
RC120C-*yz	2800	12L	Yes	No	Yes	Yes	No
RC85B-*yz	2650	8,5L	Yes	No	Yes	Yes	No
RC100A-*yz	3000	10L	Yes	No	Yes	Yes	No
RC100B-*yz	3200	10L	Yes	No	Yes	Yes	No
RC120A-*yz	3500	12L	Yes	No	Yes	Yes	No
RC120B-*yz	3250	12L	Yes	No	Yes	Yes	No
SRC06a-*xyz	300	0,6L	Yes	Yes	Yes	Yes	Yes
SRC06a1-*xyz	350	0,6L	Yes	Yes	Yes	Yes	Yes
SRC10a-*xyz	400	1,0L	Yes	Yes	Yes	Yes	Yes
SRC10a1-*xyz	450	1,0L	Yes	Yes	Yes	Yes	Yes
SRC12a-*xyz	400	1,2L	Yes	Yes	Yes	Yes	Yes
SRC12a1-*xyz	450	1,2L	Yes	Yes	Yes	Yes	Yes
SRC15a-*xyz	500	1,5L	Yes	Yes	Yes	Yes	Yes
SRC15a1-*xyz	550	1,5L	Yes	Yes	Yes	Yes	Yes
SRC18a-*xyz	700	1,8L	Yes	Yes	Yes	Yes	Yes
SRC18a1-*xyz	650	1,8L	Yes	Yes	Yes	Yes	Yes
SRC18a2-*xyz	600	1,8L	Yes	Yes	Yes	Yes	Yes
SRC22a-*xyz	900	2,2L 2,5L	Yes	Yes	Yes	Yes	Yes
SRC22a1-*xyz	850	2,2L 2,5L	Yes	Yes	Yes	Yes	Yes
SRC28a-*xyz	1000	2,8L	Yes	Yes	Yes	Yes	Yes
SRC28a1-*xyz	950	2,8L	Yes	Yes	Yes	Yes	Yes
SRC28a2-*xyz	900	2,8L	Yes	Yes	Yes	Yes	Yes
DRC10a-*xmz	400	1,0L	No	Yes	Yes	Yes	Yes
DRC10a1-*xmz	450	1,0L	No	Yes	Yes	Yes	Yes
DRC12a-*xmz	400	1,2L	No	Yes	Yes	Yes	Yes
DRC12a1-*xmz	450	1,2L	No	Yes	Yes	Yes	Yes
DRC15a-*xmz	500	1,5L	No	Yes	Yes	Yes	Yes
DRC15a1-*xmz	550	1,5L	No	Yes	Yes	Yes	Yes
DRC18a-*xmz	700	1,8L	No	Yes	Yes	Yes	Yes
DRC18a1-*xmz	650	1,8L	No	Yes	Yes	Yes	Yes
DRC22a-*xmz	900	2,2L 2,5L	No	Yes	Yes	Yes	Yes



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DRC22a1-*xmz	850	2,2L 2.5L	No	Yes	Yes	Yes	Yes
DRC28a-*xmz	1100	2,8L	No	Yes	Yes	Yes	Yes
DRC28a1-*xmz	1000	2,8L	No	Yes	Yes	Yes	Yes
DRC28a2-*xmz	950	2,8L	No	Yes	Yes	Yes	Yes
DRC28a3-*xmz	900	2,8L	No	Yes	Yes	Yes	Yes
DRC32a-*xmz	1200	3,2L	No	Yes	Yes	Yes	Yes
DRC32a1-*xmz	1250	3,2L	No	Yes	Yes	Yes	Yes
DRC32a2-*xmz	1100	3,2L	No	Yes	Yes	Yes	Yes
DRC36a-*xmz	1300	3,6L	No	Yes	Yes	Yes	Yes
DRC36a1-*xmz	1250	3,6L	No	Yes	Yes	Yes	Yes
DRC36a2-*xmz	1100	3,6L	No	Yes	Yes	Yes	Yes

a = C, S or O, indicates difference bottom enclosure. C means metal enclosure. S means plastic enclosure, O means One-piece shell.

* = A to U, a to z, indicates difference control panel, shown as below.

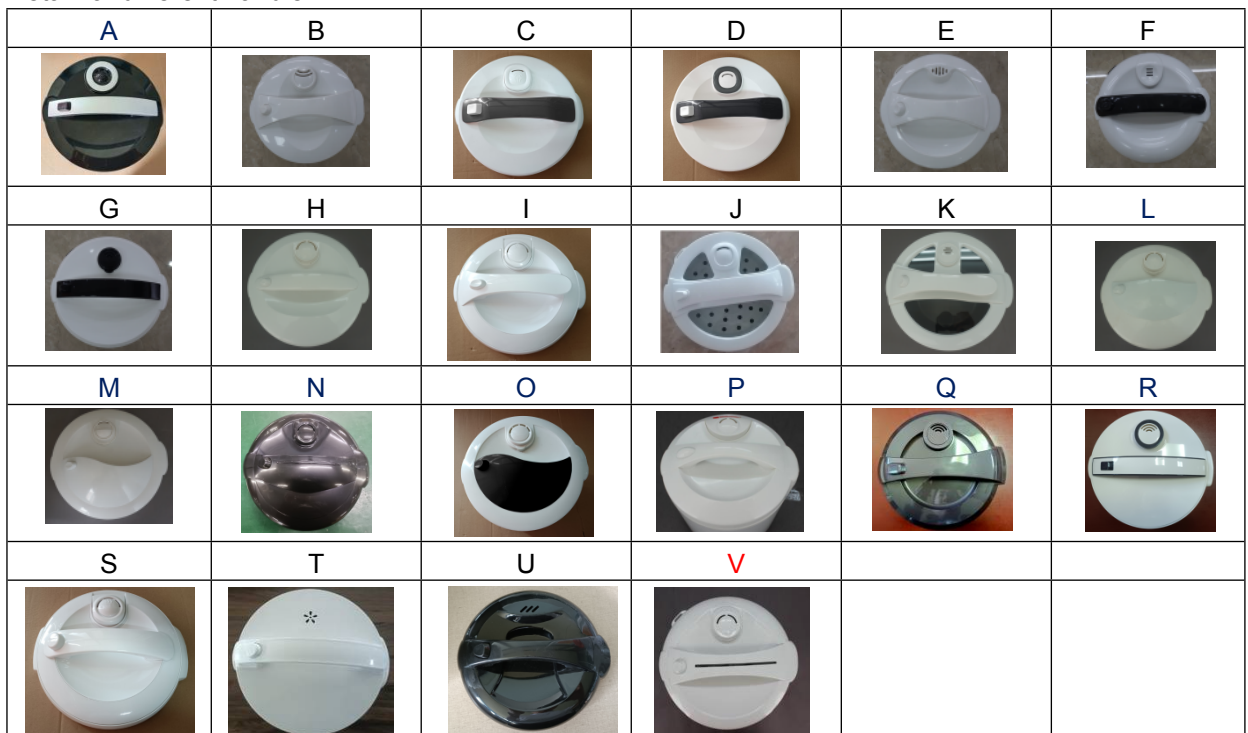
x = V, W or P, indicates difference pattern of the appearance. V means stainless steel. W means coated steel. P means coated steel with painted pattern.

y = X or Y, indicates difference connection. X means the appliance was with appliance inlet. Y means the appliance was type Y attachment.

m = A to V, indicates difference handle. Detail shown in below.

z = 1, 2 or 3, indicates difference electric circuit. Detail shown in attachment 3.

Detail for different handle:



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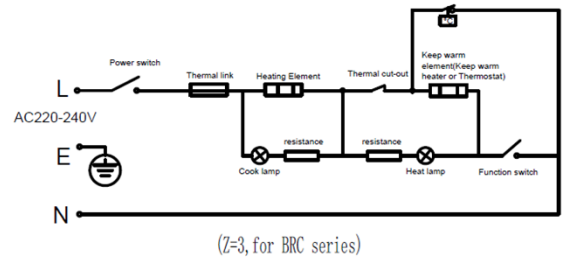
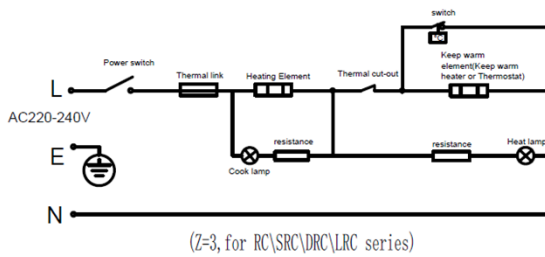
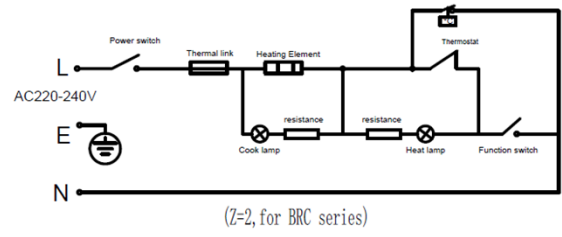
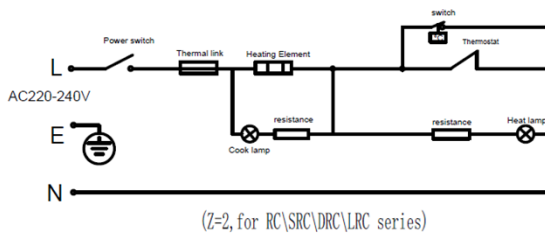
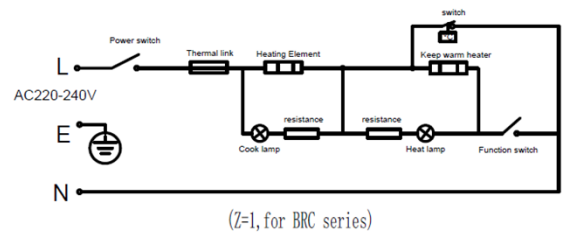
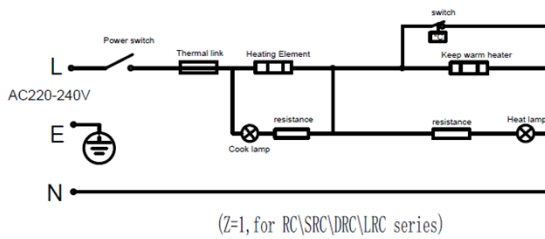
Detail for different control panel:

A	B	C	D	E	F
					
G	H	I	J	K	L
					
M	N	O	P	Q	R
					
S	T	U		a	b
					
c	d	e	f	g	h
					
i	j	k	l	m	n
					
o	p	q	r	s	t
					
u	v	w	x	y	z
					



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Detail for different electric circuit.



According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the Model No., outer appearance, size, rated capacity and rated power.

Therefore, only one model **RC120A-AY3** with the maximum rated power was tested in this report.

Remark for report GZEM220400201302

This report GZEM220400201302 supersedes the previous report GZEM220400201301, add new Model No. (* = Q to U, m = P to V) and update electric circuit difference as per the Applicant request.



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4 General Information

4.1 Details of E.U.T.

Power supply: AC 220-240V 50/60Hz 3500W
 Test voltage: AC 230V
 Clock frequency: below 15MHz
 Cable(s): About 0.8m x 3 wires unshielded AC mains cable.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
The EUT has been tested with water as load.	/	/	/

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	2.76dB (150kHz to 30MHz)
Disturbance Power	3.62dB(30MHz-300MHz)
Remark: The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.	

4.4 Test Location

All tests were performed at:
 SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
 198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
 Guangzhou, China 510663
 Tel: +86 20 82155555 Fax: +86 20 82075059
 No tests were sub-contracted.

4.5 Test Facility

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

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2019-10-20	2022-10-19
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2021-09-24	2022-09-23
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2021-06-01	2022-05-31
Test Software E3r	Audix	Ver.6.11812	GZE100-77	N/A	N/A

Discontinuous Disturbance (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Click Analyzer (PMM CA0010)	Narda Safety Test Solutions	PMM CA0010	EMC2182	2021-09-24	2022-09-23
EMI Receiver (10Hz-30MHz)	Narda Safety Test Solutions	PMM 9010F	EMC2183	2021-09-24	2022-09-23
Test Software PMM Click Analysis	Narda Safety Test Solutions	Ver 1.06	GZE100-76	N/A	N/A

Disturbance Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2019-10-20	2022-10-19
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2021-06-01	2022-05-31
Test Software E3r	Audix	Ver.6.11812	GZE100-77	N/A	N/A
Slide Bar RP (KMS560)	HD-GmbH	KMS560	EMC0103	N/A	N/A
Slide Bar Controller (HD50)	HD-GmbH	HD50	EMC0305	N/A	N/A
Absorbing Clamp-AUX	Beijing Dazhe Co. Ltd.	ZN23201	EMC2040	2021-12-29	2022-12-28
Absorbing Clamp-Main	Rohde & Schwarz	MDS-21	EMC2184	2022-02-27	2023-02-26
6 dB Attenuator with 8m length cable	Rohde & Schwarz	MDS-21	EMC2185	2022-02-27	2023-02-26



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Harmonic Current Emission					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Digital power analyzer for harmonics & flicker testing	EMTEST	DPA 500N	EMC2235	2022-04-21	2023-04-20
Programmable multifunctional ac/dc power source	EMTEST	NETWAVE 7-400	EMC2234	2022-04-21	2023-04-20
NET.Control	EMTEST	Ver 3.2.0	GZE100-80	N/A	N/A

Voltage Fluctuations and Flicker					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Digital power analyzer for harmonics & flicker testing	EMTEST	DPA 500N	EMC2235	2022-04-21	2023-04-20
Programmable multifunctional ac/dc power source	EMTEST	NETWAVE 7-400	EMC2234	2022-04-21	2023-04-20
NET.Control	EMTEST	Ver 3.2.0	GZE100-80	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-05



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6 Emission Test Results

6.1 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)

Test Requirement:	EN IEC 55014-1: 2021
Test Method:	CISPR 16-2-1
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 59dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

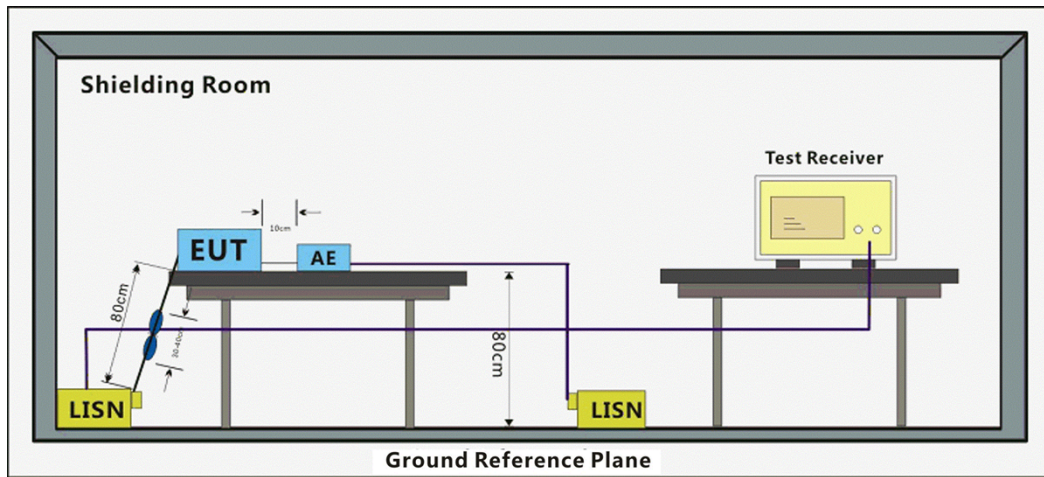
6.1.1 E.U.T. Operation

Operating Environment:			
Temperature:	25.7 °C	Humidity:	56.6 % RH
		Atmospheric Pressure:	1020 mbar

6.1.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	Test the EUT in heating mode.
Pre-scan 01	Test the EUT in keep warm mode.

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

Frequency Range: 150kHz to 30MHz

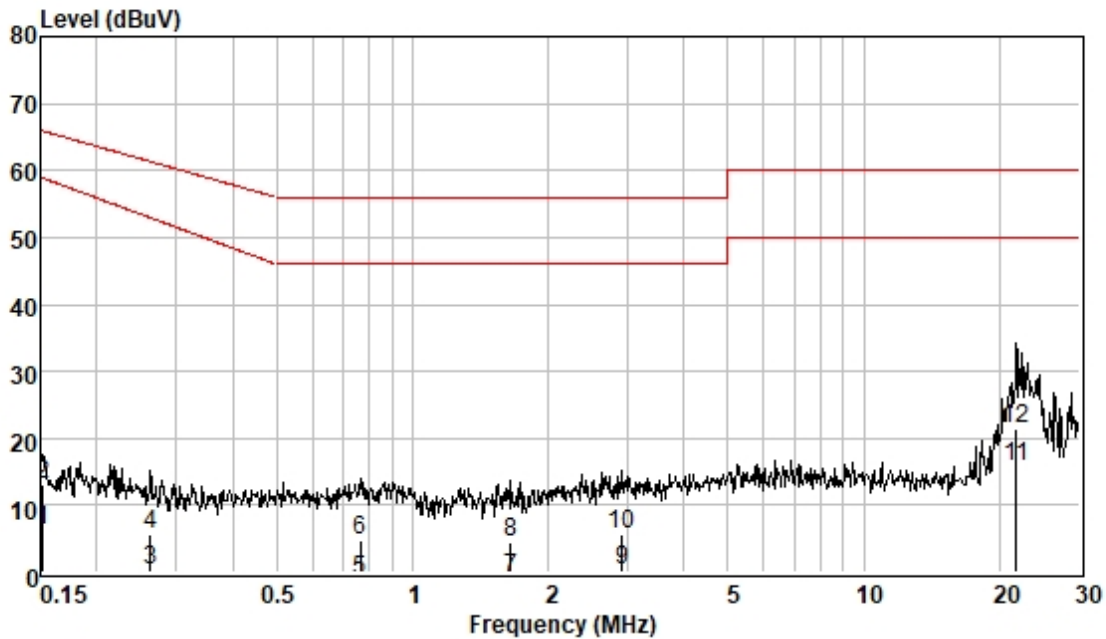
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected. The red line show in graphic is the limit in standard used in this section.

Measured Level = Read level + Cable Loss + LISN Factor



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Test Mode: 00; Line: Live line



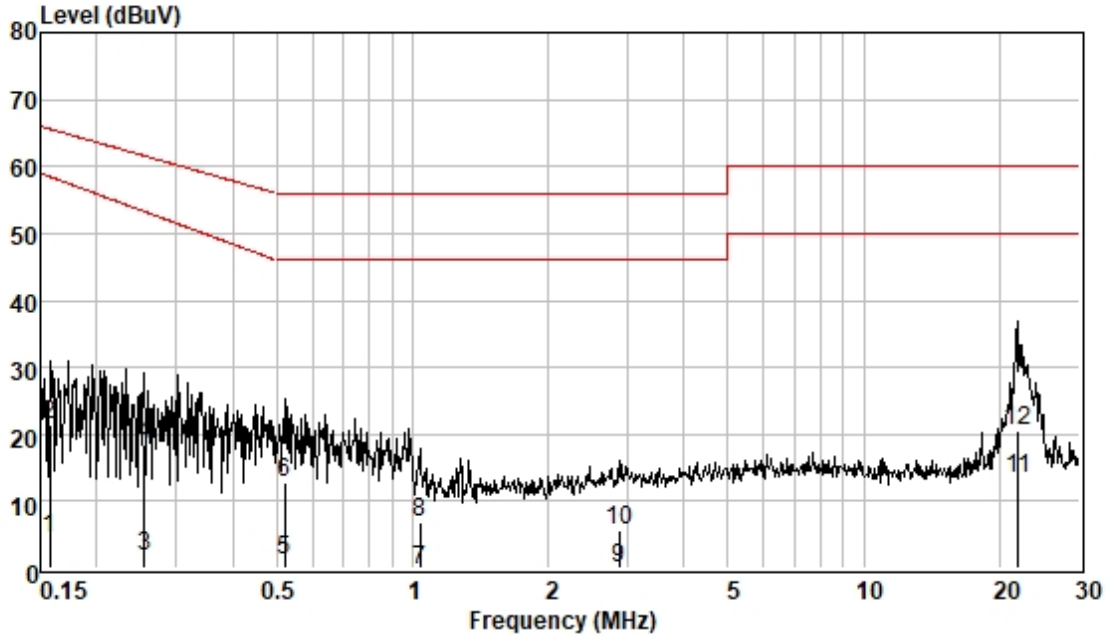
Pol :LINE
Mode :
Model :

	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.152	-3.25	0.06	9.54	6.35	58.89	-52.54	Average
2	0.152	3.40	0.06	9.54	13.00	65.91	-52.91	QP
3	0.263	-9.43	0.06	9.57	0.20	52.94	-52.74	Average
4	0.263	-4.11	0.06	9.57	5.52	61.34	-55.82	QP
5	0.767	-10.92	0.07	9.60	-1.25	46.00	-47.25	Average
6	0.767	-5.05	0.07	9.60	4.62	56.00	-51.38	QP
7	1.654	-10.66	0.11	9.60	-0.95	46.00	-46.95	Average
8	1.654	-5.24	0.11	9.60	4.47	56.00	-51.53	QP
9	2.915	-9.39	0.14	9.61	0.36	46.00	-45.64	Average
10	2.915	-4.11	0.14	9.61	5.64	56.00	-50.36	QP
11	21.715	5.61	0.38	9.82	15.81	50.00	-34.19	Average
12	21.715	11.13	0.38	9.82	21.33	60.00	-38.67	QP



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Test Mode: 00; Line: Neutral Line



Pol : NEUTRAL
Mode :
Model :

	Freque nc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.157	-5.03	0.06	9.53	4.56	58.49	-53.93	Average
2	0.157	11.80	0.06	9.53	21.39	65.60	-44.21	QP
3	0.255	-7.72	0.06	9.56	1.90	53.28	-51.38	Average
4	0.255	8.88	0.06	9.56	18.50	61.60	-43.10	QP
5	0.521	-8.36	0.07	9.58	1.29	46.00	-44.71	Average
6	0.521	3.14	0.07	9.58	12.79	56.00	-43.21	QP
7	1.037	-10.00	0.07	9.59	-0.34	46.00	-46.34	Average
8	1.037	-2.74	0.07	9.59	6.92	56.00	-49.08	QP
9	2.869	-9.62	0.14	9.61	0.13	46.00	-45.87	Average
10	2.869	-4.16	0.14	9.61	5.59	56.00	-50.41	QP
11	21.946	3.22	0.38	9.90	13.50	50.00	-36.50	Average
12	21.946	10.11	0.38	9.90	20.39	60.00	-39.61	QP



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6.2 Discontinuous Disturbance (150kHz-30MHz)

Test Requirement: EN IEC 55014-1: 2021

Test Method: EN IEC 55014-1: 2021

Limit:

Provision	Click Rate (N)		
	1	All clicks ≤ 20 ms	90 % click ≤ 10 ms
2	$N < 0,2$	$L_q^b = L^a + 44$	Clicks $^c \leq 25\%$ exceed L_q^b
3	$30 > N \geq 0,2$	$L_q^b = L^a + 20 \lg(30/N)$	Clicks $^c \leq 25\%$ exceed L_q^b

^a The limits L of Conducted Emissions apply also to discontinuous disturbances from all equipment which produce:

- 1) disturbances other than clicks, or
- 2) clicks with a click rate N equal to or greater than 30

^b The click limit L_q is calculated by increasing the relevant quasi-peak limit L for continuous disturbances by certain value.

The click limit applies to the disturbance assessed according to the upper quartile method

^c a quarter of the number of the clicks registered during the observation time T is allowed to exceed the click limit L_q

6.2.1 E.U.T. Operation

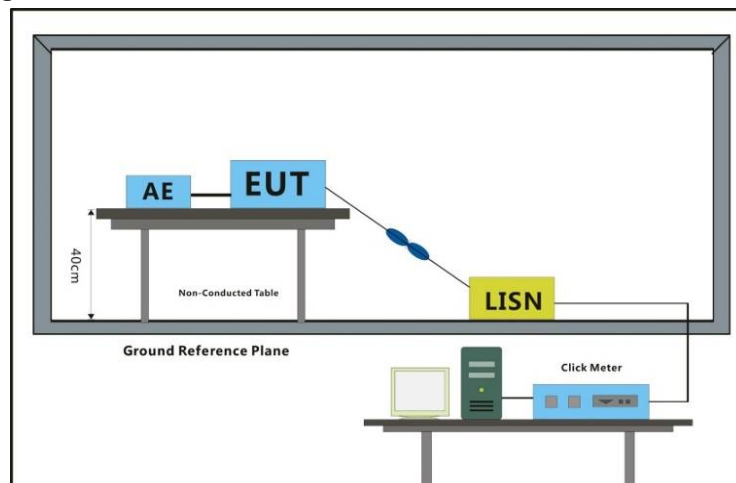
Operating Environment:

Temperature: 24.2 °C Humidity: 60.5 % RH Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	Description
Pre-scan 00	Test the EUT in heating mode.
Final test 01	Test the EUT in keep warm mode.

6.2.3 Test Setup Diagram



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6.2.4 Measurement Procedure and Data

Frequency Range: 150kHz to 30MHz

Test Mode: 01

Lq Calculation										
Frequency MHz	Limit dBuV	<=10ms	<=20ms	<=0.2s	From Exception E4	Other than click ms	Total Clicks	Time min.	N rate	+Lq dB
0.15	66.0	6	0	0	0	0	6	120.0	0.1	PASS
0.50	56.0	0	0	0	0	0	0	120.0	0.0	PASS
1.40	56.0	0	0	0	0	0	0	120.0	0.0	PASS
30.00	60.0	0	0	0	0	0	0	120.0	0.0	PASS



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6.3 Disturbance Power

Test Requirement: EN IEC 55014-1: 2021
 Test Method: CISPR 16-2-2
 Limit:
 30MHz- 300MHz: 45dB(pW)-55dB(pW) quasi-peak, 35dB(pW)-45dB(pW) average
 200MHz- 300MHz: 0dB(pW)-10dB(pW) quasi-peak (reduction limit)
 Detector: Peak for pre-scan (120kHz resolution bandwidth) 30MHz to 300MHz

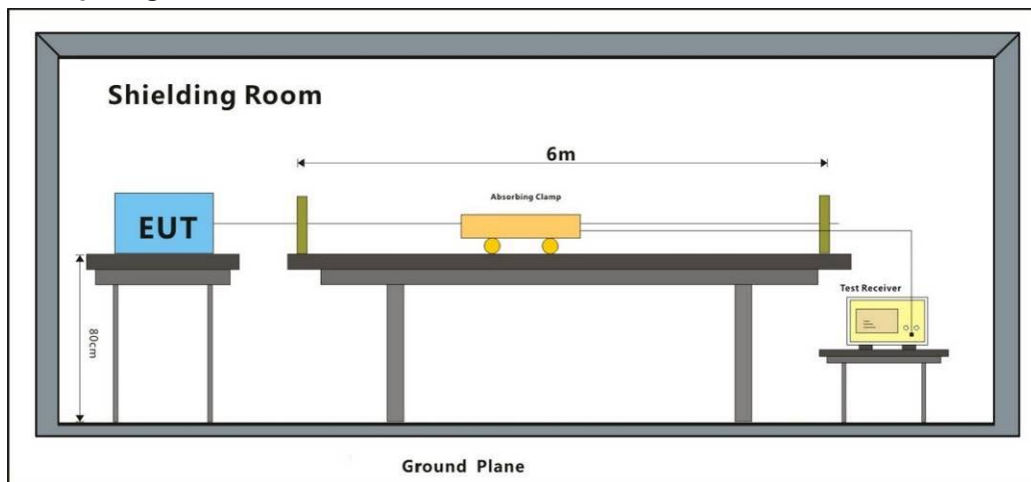
6.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 25.7 °C Humidity: 56.6 % RH Atmospheric Pressure: 1020 mbar

6.3.2 Test Mode Description

Pre-scan / Mode	Code	Description
Final test	00	Test the EUT in heating mode.
Pre-scan	01	Test the EUT in keep warm mode.

6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and Data

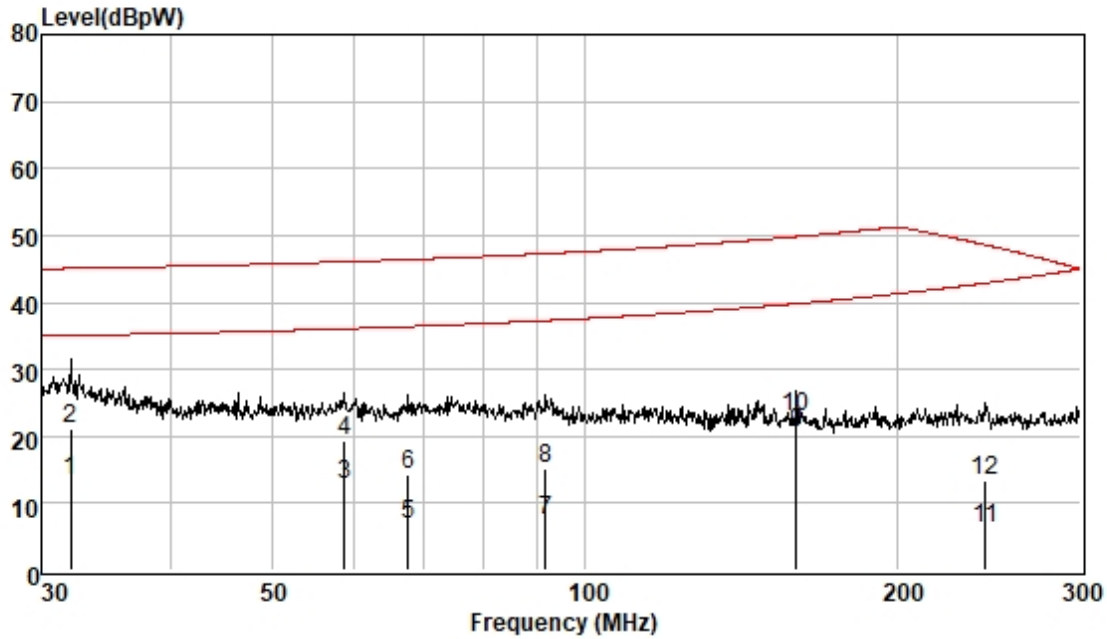
Frequency Range: 30MHz to 300MHz

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected. The red line show in graphic is the limit in standard used in this section.

Measured Level = Read level + Cable Loss + Clamp Factor



Test Mode: 00



Mode :
Model :

	Frequency MHz	Read level dBuV	Cable Loss dB	Clamp Factor dB	Measured level dBpW	Limit Line dBpW	Over limit dB	Remark
1	31.998	4.48	6.63	2.32	13.43	35.07	-21.64	Average
2	31.998	12.26	6.63	2.32	21.21	45.07	-23.86	QP
3	58.765	6.83	6.87	-0.86	12.84	36.07	-23.23	Average
4	58.765	13.22	6.87	-0.86	19.23	46.07	-26.84	QP
5	67.627	0.78	6.95	-0.74	6.99	36.39	-29.40	Average
6	67.627	7.98	6.95	-0.74	14.19	46.39	-32.20	QP
7	91.648	2.56	7.12	-2.22	7.46	37.28	-29.82	Average
8	91.648	10.38	7.12	-2.22	15.28	47.28	-32.00	QP
9	160.001	16.61	7.49	-3.60	20.50	39.81	-19.31	Average
10	160.001	18.90	7.49	-3.60	22.79	49.82	-27.03	QP
11	243.288	2.15	7.89	-3.83	6.21	42.90	-36.69	Average
12	243.288	9.24	7.89	-3.83	13.30	48.57	-35.27	QP



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6.4 Harmonic Current Emission

Test Requirement: EN IEC 61000-3-2: 2019+A1:2021
 Test Method: EN IEC 61000-3-2: 2019+A1:2021

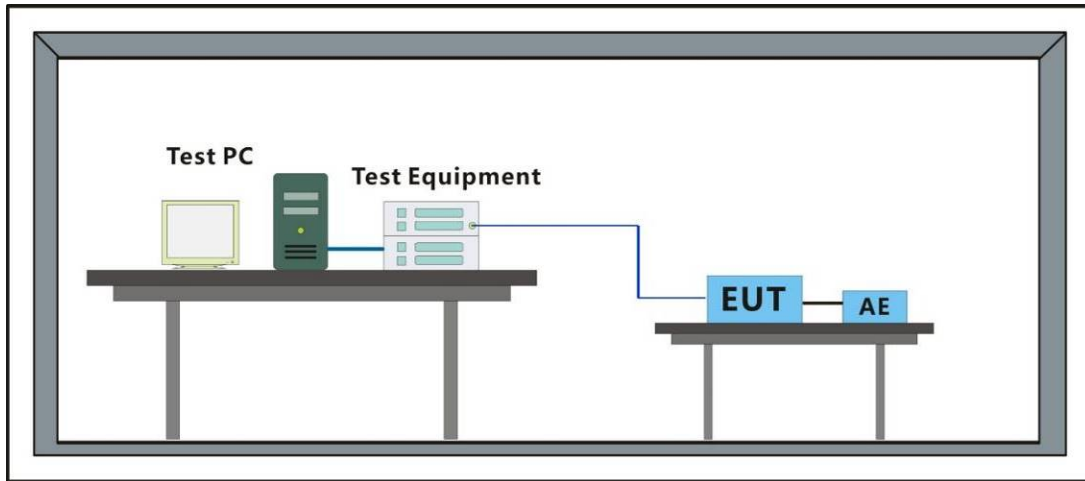
6.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.7 °C Humidity: 63.8 % RH Atmospheric Pressure: 1020 mbar

6.4.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	Test the EUT in heating mode.
Pre-scan 01	Test the EUT in keep warm mode.

6.4.3 Test Setup Diagram



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6.4.4 Measurement Procedure and Data

Frequency Range: 100Hz to 2kHz

Test Mode: 00

Standard Group: Industry
 Standard Name: IEC 61000-3-2 (Edition 5.1)
 Limits for harmonic current emissions (equipment input current < 16 A per phase)
 Device Under Test: **PASS**
 Power Source: **PASS**
 Connection Type: L - N
 Classification: Class A
 Appli. of Limits: less than or equal to 150 % (Without POHC Enhancement)
 Test Duration: 2 min 30 s

Check Harmonics 2..40	
<i>First detected harmonic order > 150 %</i>	
Line 1:	None
<i>Harmonics orders > 150 %</i>	
Line 1:	None
<i>Harmonics orders with average > 100 %</i>	
Line 1:	None

Measured values	
<i>Fundamental Current</i>	
Line 1:	14.726 A
<i>Active input Power</i>	
Line 1:	3388.904 W *
<i>Circuit power factor</i>	
Line 1:	1 *

* Absolute value.

Prerequisite for simplified method fulfilled	
<i>First time window with THD(I) > 15 %</i>	
Line 1:	None
<i>Time window with max THD(I) > 15 %</i>	
Line 1:	None
<i>Current emission below 60 % of the applicable limits</i>	
Line 1:	No
<i>Active Input Power</i>	
Line 1:	3389 W *

* Absolute value.



Test Mode: 00

Average and Maximum harmonic current results

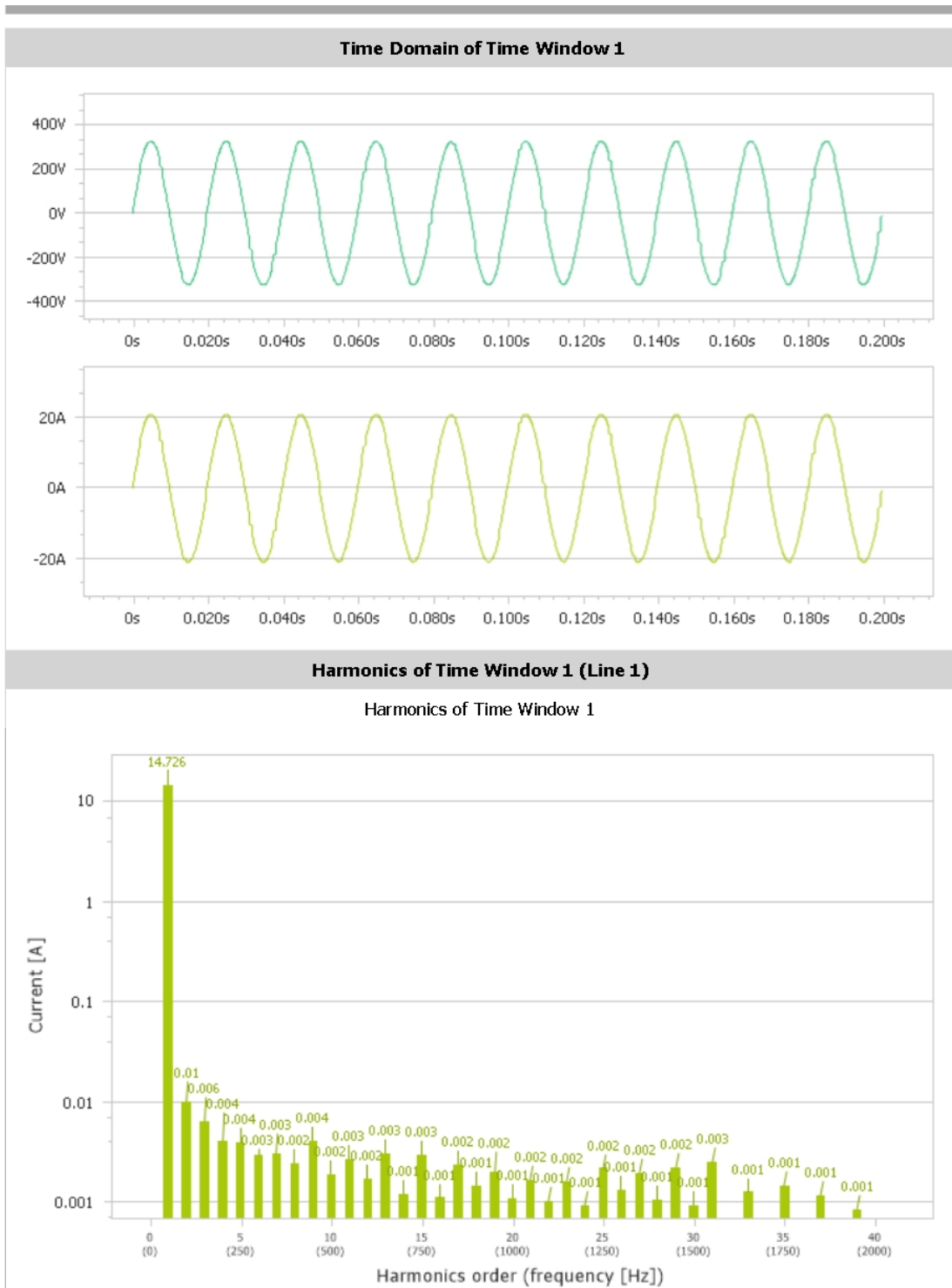
Hh	Average				Maximum				Harmonic Result
	Ieff [A]	of Limit [%]	Limit [A]	Result	Ieff [A]	of Limit [%]	Limit [A]	Result	
1	14.710				14.726				
2	0.010	0.906	1.080	n/a	0.010	0.625	1.620	n/a	PASS
3	0.007	0.308	2.300	n/a	0.008	0.219	3.450	n/a	PASS
4	0.004	0.966	0.430	n/a	0.004	0.661	0.645	n/a	PASS
5	0.004	0.354	1.140	n/a	0.004	0.243	1.710	n/a	PASS
6	0.003	0.903	0.300	n/a	0.003	0.666	0.450	n/a	PASS
7	0.004	0.478	0.770	n/a	0.004	0.340	1.155	n/a	PASS
8	0.002	0.978	0.230	n/a	0.002	0.711	0.345	n/a	PASS
9	0.004	0.981	0.400	n/a	0.004	0.687	0.600	n/a	PASS
10	0.002	1.011	0.184	n/a	0.002	0.691	0.276	n/a	PASS
11	0.003	0.830	0.330	n/a	0.003	0.591	0.495	n/a	PASS
12	0.001	0.946	0.153	n/a	0.002	0.751	0.230	n/a	PASS
13	0.003	1.546	0.210	n/a	0.003	1.071	0.315	n/a	PASS
14	0.001	0.915	0.131	n/a	0.001	0.634	0.197	n/a	PASS
15	0.003	1.875	0.150	n/a	0.003	1.327	0.225	n/a	PASS
16	0.001	0.963	0.115	n/a	0.001	0.684	0.173	n/a	PASS
17	0.002	1.860	0.132	n/a	0.003	1.267	0.199	n/a	PASS
18	0.001	1.250	0.102	n/a	0.001	0.944	0.153	n/a	PASS
19	0.002	1.702	0.118	n/a	0.002	1.189	0.178	n/a	PASS
20	0.001	1.160	0.092	n/a	0.001	0.808	0.138	n/a	PASS
21	0.002	1.711	0.107	n/a	0.002	1.238	0.161	n/a	PASS
22	0.001	1.087	0.084	n/a	0.001	0.813	0.125	n/a	PASS
23	0.002	1.744	0.098	n/a	0.002	1.228	0.147	n/a	PASS
24	0.001	1.252	0.077	n/a	0.001	0.921	0.115	n/a	PASS
25	0.002	2.324	0.090	n/a	0.002	1.674	0.135	n/a	PASS
26	0.002	2.208	0.071	n/a	0.002	1.578	0.106	n/a	PASS
27	0.002	2.398	0.083	n/a	0.002	1.756	0.125	n/a	PASS
28	0.001	1.346	0.066	n/a	0.001	1.092	0.099	n/a	PASS
29	0.002	2.850	0.078	n/a	0.002	1.934	0.116	n/a	PASS
30	0.001	1.594	0.061	n/a	0.001	1.122	0.092	n/a	PASS
31	0.002	3.137	0.073	n/a	0.003	2.327	0.109	n/a	PASS
32	0.001	1.114	0.058	n/a	0.001	0.791	0.086	n/a	PASS
33	0.001	1.885	0.068	n/a	0.001	1.314	0.102	n/a	PASS
34	0.001	1.234	0.054	n/a	0.001	0.873	0.081	n/a	PASS
35	0.001	2.232	0.064	n/a	0.002	1.577	0.096	n/a	PASS
36	0.001	1.250	0.051	n/a	0.001	0.922	0.077	n/a	PASS
37	0.001	1.693	0.061	n/a	0.001	1.286	0.091	n/a	PASS
38	0.001	1.209	0.048	n/a	0.001	0.858	0.073	n/a	PASS
39	0.001	1.571	0.058	n/a	0.001	1.128	0.087	n/a	PASS
40	0.001	1.401	0.046	n/a	0.001	1.011	0.069	n/a	PASS

Note: Harmonic currents less than 0.6 % of the input current measured under the test conditions, or less than 5 mA, whichever is greater, are disregarded.



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Test Mode: 00; Bandwidth:20MHz



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Test Mode: 00

		Line 1
<i>Maximum Values</i>		
	Frequency	50 Hz
	Voltage RMS	230.1 V
	Current RMS	14.71 A
	Peak Current	20.83 A
	Fundamental Current	14.73 A
	Current Crest Factor	1.476
	Active Power P	3389 W
	Power Factor	1.000
	Total Harmonic Current (THC)	0.01776 A
	Instantaneous Partial Odd Harmonic Current (Inst. POHC)	6.072e-3 A
	Total Harmonic Distortion Current (THDC)	1.206e-3
<i>Average Values</i>		
	Total Harmonic Current (THC)	0.01751 A
	Instantaneous Partial Odd Harmonic Current (Inst. POHC)	5.516e-3 A
	Total Harmonic Distortion Current (THDC)	1.189e-3



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6.5 Voltage Fluctuations and Flicker

Test Requirement: EN 61000-3-3: 2013+A1: 2019
 Test Method: EN 61000-3-3: 2013+A1: 2019

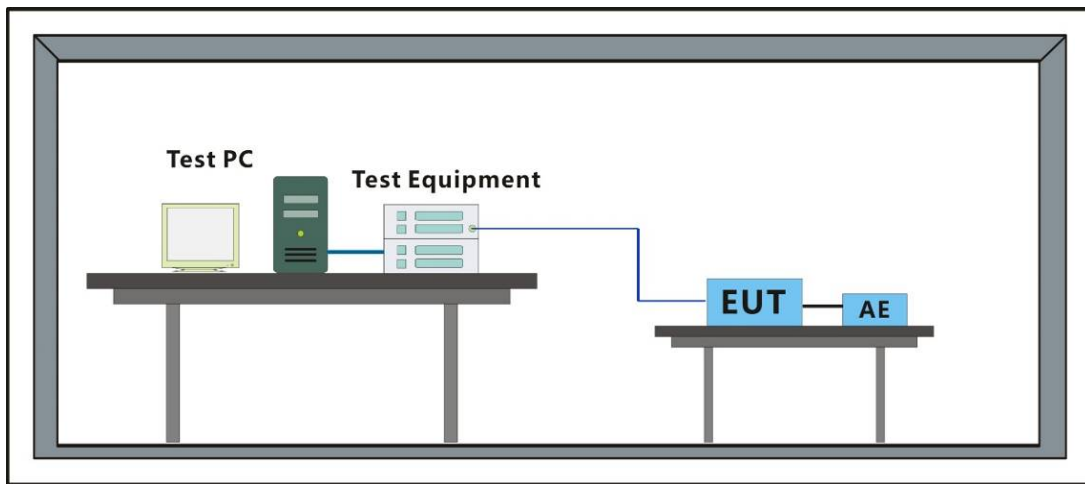
6.5.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.8 °C Humidity: 63.8 % RH Atmospheric Pressure: 1020 mbar

6.5.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	Test the EUT in heating mode.
Pre-scan 01	Test the EUT in keep warm mode.

6.5.3 Test Setup Diagram



6.5.4 Measurement Procedure and Data

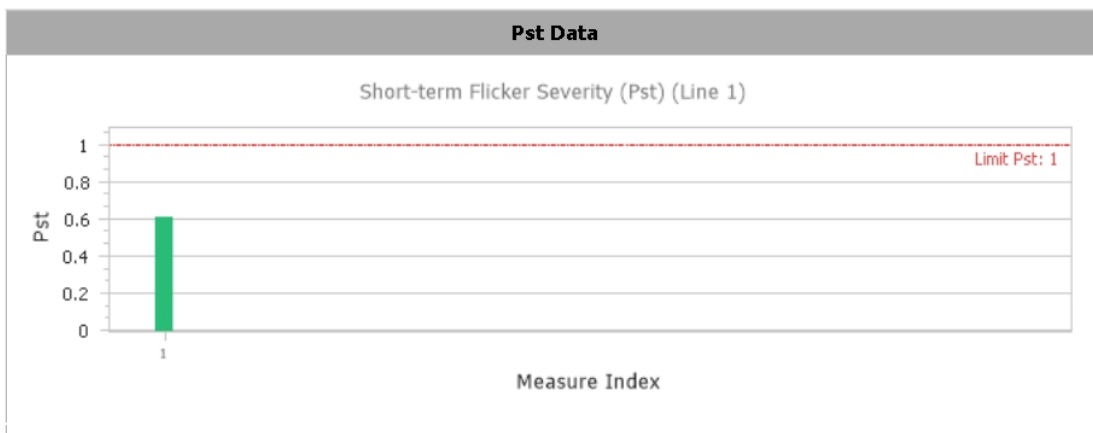
Test Mode: 00

Standard Group:	Industry
Standard Name:	IEC 61000-3-3 (Edition 3.2) Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection
Test Condition:	General Test Conditions
Analysis Status:	PASS

Flicker Measurements Settings	
Main Line:	230V, 50Hz
Flicker Meter:	230V / 50Hz
Flicker Impedance:	Zref
Observation Time:	1 x 10 min
Measurements:	1

Flicker Measurements					
	P _{It}	Max P _{st}	Max d _c	Max d _{max}	Max T _{max}
Line 1:	0.269	0.615	2.708	2.852	0
Limits:	0.65	1	3.3	4	0.5
Results:	PASS	PASS	PASS	PASS	PASS

Flicker Individual Measurements												
Measurement	P _{st} []			d _c [%]			d _{max} [%]			T _{max} [s]		
	Value	Limit	Result	Value	Limit	Result	Value	Limit	Result	Value	Limit	Result
#1	0.62	1.00	PASS	2.71	3.30	PASS	2.85	4.00	PASS	0.00	0.50	PASS



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7 Immunity Test Results

Test Requirement: EN IEC 55014-2: 2021
 Test Method: N/A: See Remark Below

There is no need for immunity tests to be performed on this product in accordance with clause 7.2.2 of EN IEC 55014-2: 2021 which states:

“Category I apparatus is deemed to fulfil the relevant immunity requirement without testing.”

For further details, please refer to clause 4.2 of EN IEC 55014-2: 2021 which states:

“Category I: apparatus containing no electronic control circuitry.

Example: motor operated appliances, lighting toys, track sets without electronic control units, tools, heating appliances UV and IR radiators and apparatus containing components such as electromechanical switches and thermostats.

Electric circuits consisting of passive components (such as radio interference suppression capacitors or inductors, mains transformers and mains frequency rectifiers) are not considered to be electronic control circuitry.”



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8 Test Setup Photo

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)



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Discontinuous Disturbance (150kHz-30MHz)



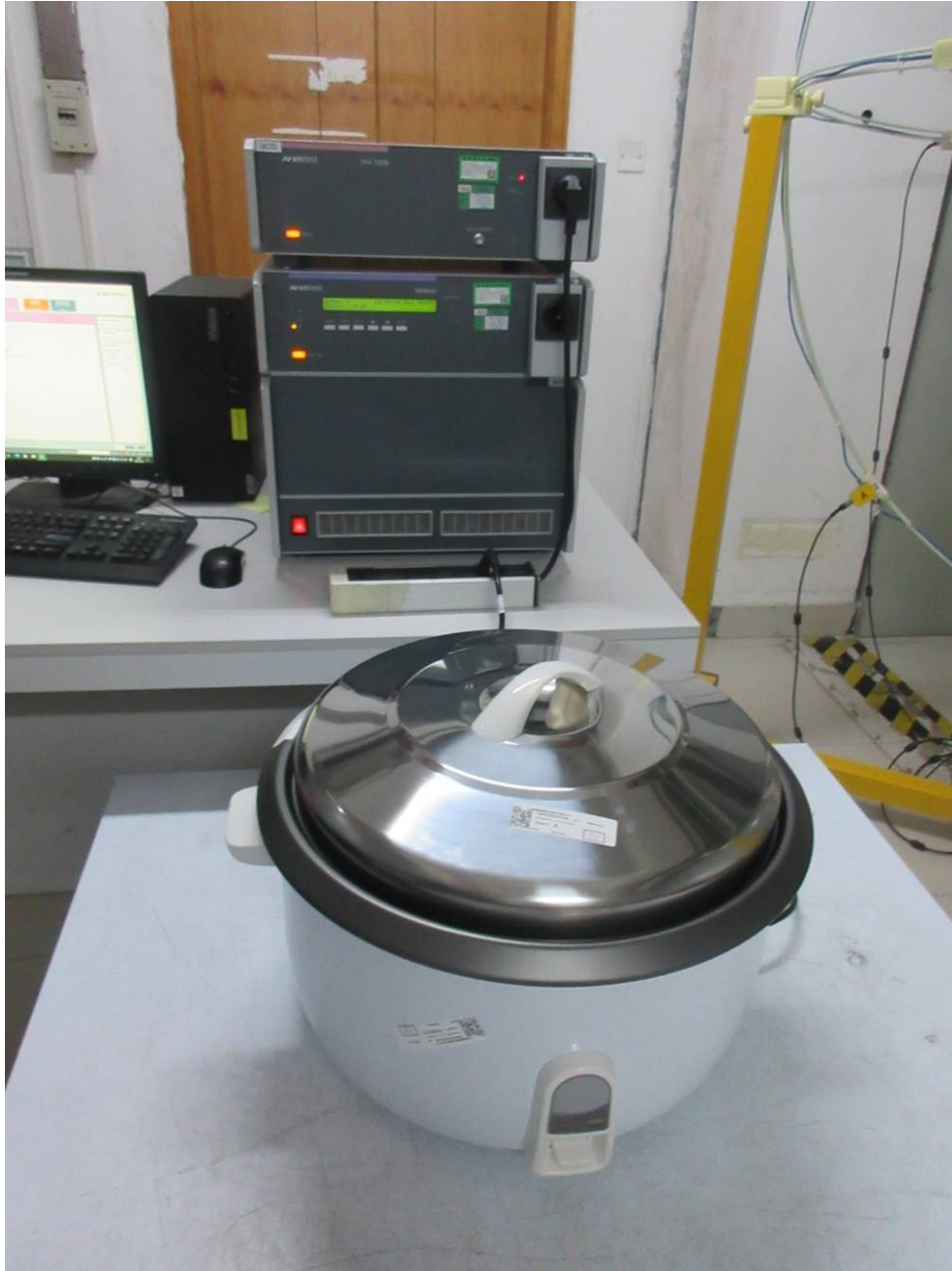
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Disturbance Power



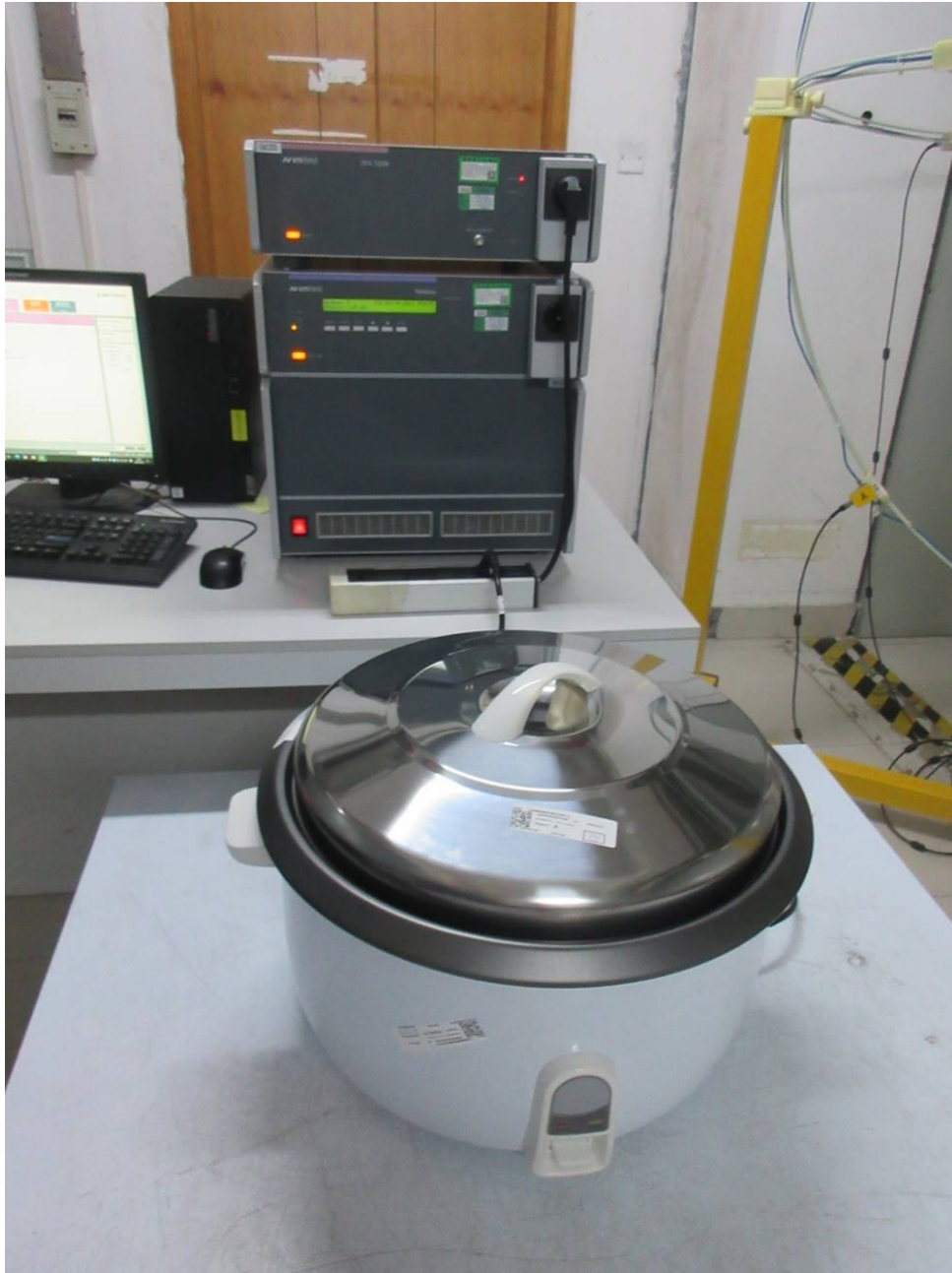
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Harmonic Current Emission



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Voltage Fluctuations and Flicker



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9 EUT Constructional Details (EUT Photos)

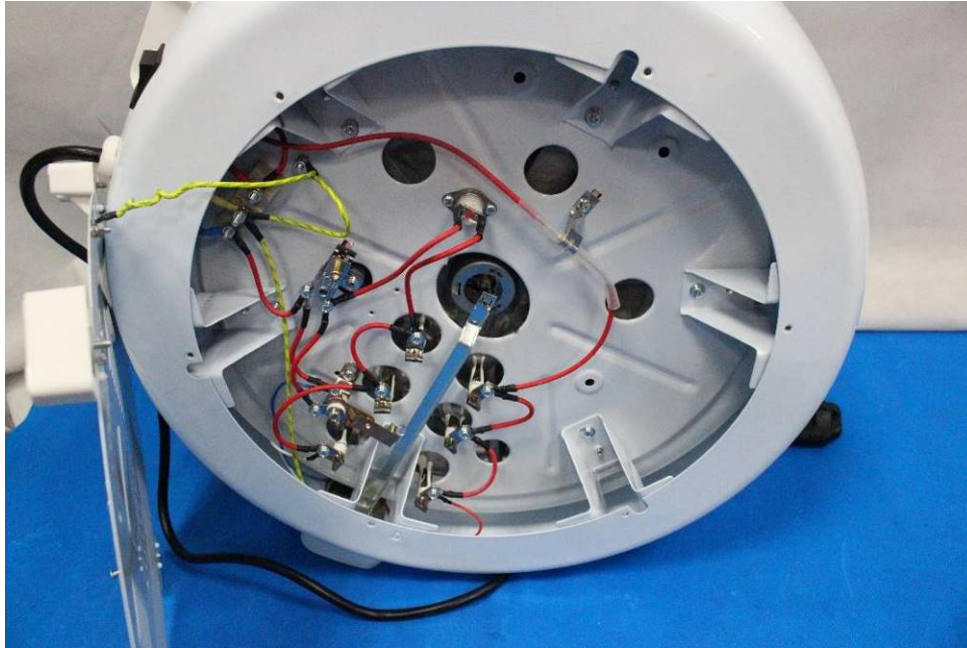


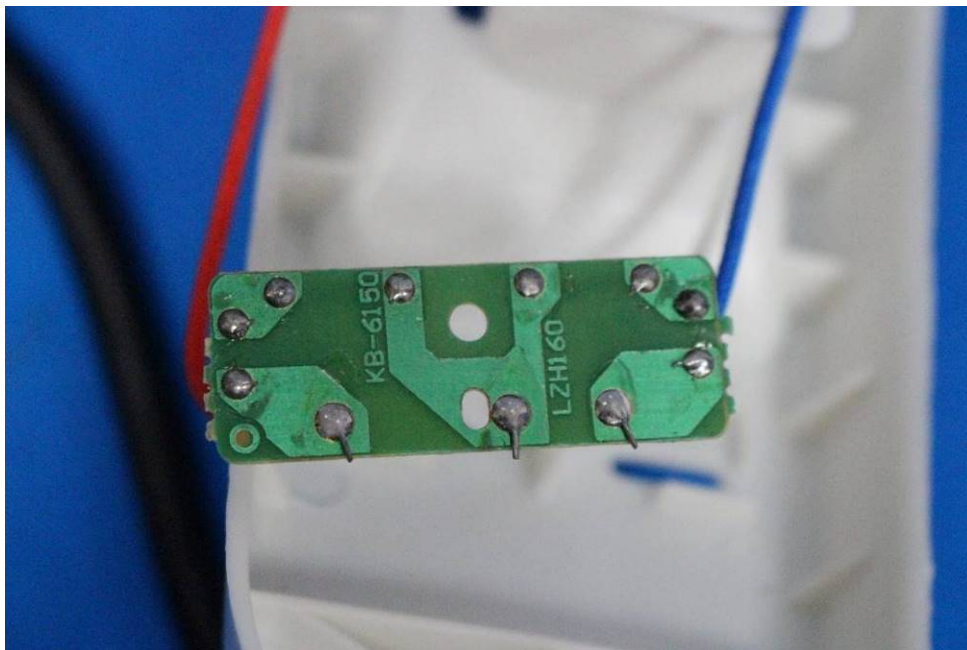
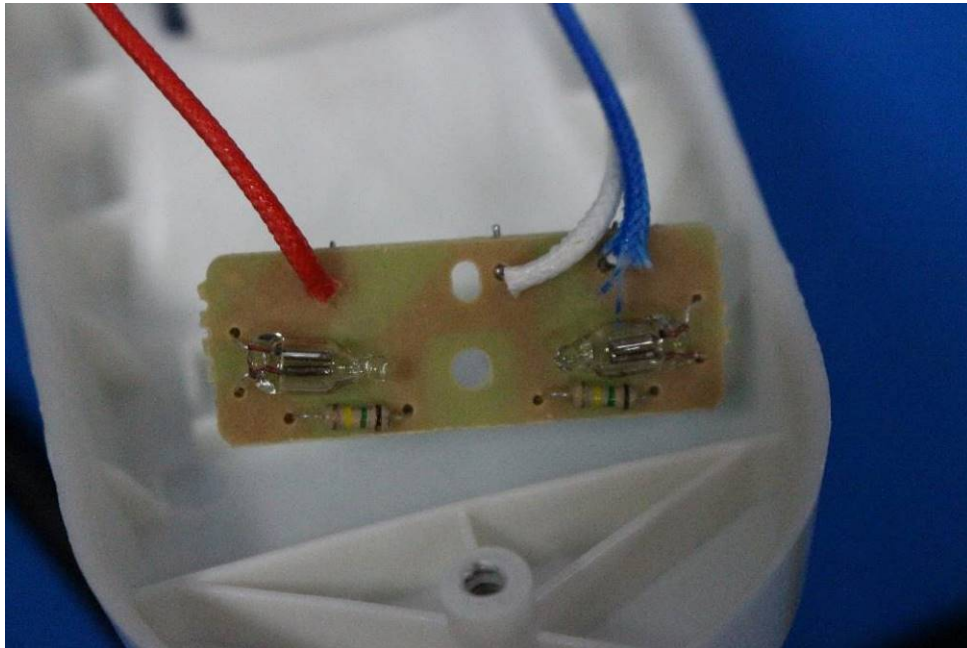
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SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch EMC Laboratory
No.198 Kazhu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com



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The photos below were supplied by Applicant.

Model: DRC18S-avA1



Model: RC15A-MX2



Model: SRC18C1-wvx1



- End of the Report -