

TEST REPORT

Application No.: SHEM2206004942HS
Applicant: Zhejiang Haoda Electrical Appliance Co., Ltd
Address of Applicant: No.69, Linjiang, Gaobu, Yuecheng, Shaoxing, 312000 Zhejiang, China
Manufacturer: Zhejiang Haoda Electrical Appliance Co., Ltd
Address of Manufacturer: No.69, Linjiang, Gaobu, Yuecheng, Shaoxing, 312000 Zhejiang, China
Factory: Zhejiang Haoda Electrical Appliance Co., Ltd
Address of Factory: No.69, Linjiang, Gaobu, Yuecheng, Shaoxing, 312000 Zhejiang, China

Equipment Under Test (EUT):

EUT Name: Hotplate Cooker
Model No.: HD2015BN,HD1012BN,HD1015BN,HD2011BN,HD2012BN,HD2013BN,HD2015B,HD1001A,HD1011A,HD1001B,HD1011B,HD1002A,HD1012A,HD1002B,HD1012B,HD1015B,HD1016B,HD01,HD02,HD03H,HD02H1,HD02HC,HD02CH,HD02H2,HD02C2,HD01A,HD2001B,HD2011B,HD2002A,HD2012A,HD2002B,HD2012B,HD2003A,HD2013A,HD2013B,HD2016B,HD2016C,HD2016D,HD2013C,HD2013D,HD02H5,HD2011C,HD02H3,HD02H6,HD2012BB,HD2001A,HD2011A,HD1012BA,HD2011BA,HD2013BA,HD1015BA,HD2015BA, HD2002A1,HD2013B1, HD2013B2; ▣

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

Standard(s) : EN IEC 55014-1:2021
 EN IEC 61000-3-2:2019+A1:2021
 EN 61000-3-3:2013+A1:2019+A2:2021
 EN IEC 55014-2:2021

Date of Receipt: 2022-02-11
Date of Test: 2022-02-14 to 2022-02-16
Date of Issue: 2022-07-01

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



Parlam Zhan

Parlam Zhan
Laboratory Manager



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Revision Record			
Version	Description	Date	Remark
00	1, Add models 2, Update Standards version	2022-07-01	Based on SHEM220200091001

Authorized for issue by:			
			
		<hr/>	
		Andy Yang / Project Engineer	
			
		<hr/>	
		Bruce Tang / Reviewer	



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	EN IEC 55014-1:2021	CISPR 16-2-1	N/A	Pass
Discontinuous Disturbance (150kHz-30MHz)	EN IEC 55014-1:2021	EN IEC 55014-1:2021	N/A	Pass
Disturbance Power	EN IEC 55014-1:2021	CISPR 16-2-2	N/A	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+A2:2021	EN 61000-3-3:2013+A1:2019+A2:2021	Clause 5 of EN 61000-3-3	Pass

N/A: Not applicable

Immunity Part				
Item	Standard	Method	Requirement	Result
Electrostatic Discharge	EN IEC 55014-2:2021	EN 61000-4-2:2009	4kV Contact Discharge 8kV Air Discharge	Pass
Electrical Fast Transients/Burst at Power Port	EN IEC 55014-2:2021	EN 61000-4-4:2012	1kV 5/50ns Tr/Td 5kHz Repetition Frequency	Pass
Surge at Power Port	EN IEC 55014-2:2021	EN 61000-4-5:2014 +A1:2017	1.2/50µs Tr/Td 1kV Line to Line 2kV Line to Ground	Pass
Voltage Dips and Interruptions	EN IEC 55014-2:2021	EN 61000-4-11:2004 +A1:2017	For 50Hz: 0 % UT for 0.5per 40 % UT for 10per 70 % UT for 25per For 60Hz: 0 % UT for 0.5per 40 % UT for 12per 70 % UT for 30per UT is Supply Voltage	Pass
Conducted Immunity at Power Port (150kHz-230MHz)	EN IEC 55014-2:2021	EN 61000-4-6:2014	3Vrms (emf),80%,1kHz Amp. Mod.	Pass

N/A: Not applicable



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Note: Declaration of EUT Family Grouping:

There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model HD2015BN was tested since their differences were the model number, trade name and appearance.

Note2: We add models HD2002A1, HD2013B1, HD2013B2 in this report. The new models mentioned in this report are the same as the original models, in Electronic or Electrical characters. Which were already EMC tested in the report SHEM220200091001. So the new models in this report are deemed to fulfil the EMC requirements without testing.

Note 3: According to the validated standards, the models mentioned in this report are deemed to fulfil the EMC requirements without testing.



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4 General Information

4.1 Details of E.U.T.

Power supply:	AC 220-240V, 50/60Hz
Test voltage:	AC 230V 50Hz
Cable:	AC cable 0.7 m
Maximum Clock Frequency:	<15MHz

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty & Decision Rule

Measurement Uncertainty:

No.	Item	Measurement Uncertainty (U_{LAB})	U_{CISPR}
1	Conducted Emission at mains port using AMN	2.17dB (9kHz to 150kHz)	3.8dB (9kHz to 150kHz)
		2.17dB (150kHz to 30MHz)	3.4dB (150kHz to 30MHz)
2	Conducted Emission at telecommunication port using AAN	4.41dB (150kHz to 30MHz)	5.0dB (150kHz to 30MHz)
3	Radiated Power	3.3dB (30MHz to 300MHz)	4.5dB (30MHz to 300MHz)
4	Radiated emission	Horizontal:3.40dB (30MHz-1GHz) Vertical:4.42dB (30MHz-1GHz)	6.3dB (30MHz-1GHz)
		Horizontal:3.88dB (1GHz-6GHz) Vertical:4.00dB(1GHz-6GHz)	5.2dB (1GHz-6GHz)
5	Radiated disturbance (disturbance current in a LLAS)	2.46dB (9kHz to 30MHz)	3.3dB (9kHz to 30MHz)

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Decision Rule:

- CISPR 16-4-2 for emission measurements is as below described.

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

U_{LAB} less than U_{CISPR} , therefore:

- 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.



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4.4 Test Location

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab
588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China
Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

Sub-contracted at:

Ningbo Joysun Product Testing Service Co., Ltd.
No. 66, Qingyi Road, Hi-Tech Distric, Ningbo, Zhejiang, China

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc) is provided by the applicant. (if applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

4.5 Test Facility

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

- **CNAS (No. CNAS L0317)**

CNAS has accredited Ningbo Joysun Product Testing Service Co., Ltd to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

4.6 Deviation from standards

None

4.7 Abnormalities from Standard Conditions

None

4.8 EMS Monitor

Visual: Lighting status of EUT.



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5 Equipment List

CE

Equipment	Model No	Inventory No	Manufacturer	Cal Due Date
EMI receiver	ESCI	100708	R&S	2022/3/8
Artificial mains network	ENV216	101022	R&S	2022/3/8
Artificial mains network	ESH2-Z5	100198	R&S	2022/3/8
Pulse Limiter	ESH3-Z2	100847	R&S	2022/3/8
Control Room2	(11.2*5.2*3.3)	N/A	Albatross	2022/3/2

Click

Equipment	Model No	Inventory No	Manufacturer	Cal Due Date
Digital Discontinuous Analyzer	DDA55	14041744114	AFJ	2022/12/9
Artificial mains network	LT32C/10	32031738270	AFJ	2022/12/9

DP

Equipment	Model No	Inventory No	Manufacturer	Cal Due Date
EMI receiver	ESCI	101213	R&S	2022/3/8
orbit	KMS 6000	N/A	R&S	2022/3/8
Absorbing clamp	MSD-21	100309	R&S	2022/3/8
Shielding Room1	(10*6.1*3.3)	N/A	Albatross	2022/3/2

Harmonic & Voltage Fluctuations and Flicker

Equipment	Model No	Inventory No	Manufacturer	Cal Due Date
Harmonic and flicker test system	DPA500	V0746103124	EM TEST	2022/3/8
AC Power Source	500lix-400-413	58311	CI	2022/3/8
Shielding Room1	(10*6.1*3.3)	N/A	Albatross	2022/3/2
Harmonic and flicker test system(3phase)	DPA503	V0828104013	EM TEST	2022/3/8
AC Power Source	61705	617050000124	Chroma	2022/3/8
Shielding Room2	(10*4.9*3.0)	N/A	Albatross	2022/3/2

ESD

Equipment	Model No	Inventory No	Manufacturer	Cal Due Date
ESD gun	dito	DITO B07040	EM TEST	2022/3/8

EFT

Equipment	Model No	Inventory No	Manufacturer	Cal Due Date
Burst test system	NX8-3-690-32	P2111250014	EM TEST	2022/3/8
Surge, Burst and Dip test system	UCS500-M6B	V0746103125	EM TEST	2022/3/8
booster	MV2616	V0746103126	EM TEST	2022/3/8
Coupling clamp	HFK	0108-27	EM TEST	2022/3/8
Shielding Room2	(10*4.9*3.0)	N/A	Albatross	2022/3/2



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Surge

Equipment	Model No	Inventory No	Manufacturer	Cal Due Date
Surge test system	VCS 500N8.5	P2051246299	EM TEST	2022/3/8
Surge, Burst and Dip test system	UCS500-M6B	V0746103125	EM TEST	2022/3/8
booster	MV2616	V0746103126	EM TEST	2022/3/8
Shielding Room2	(10*4.9*3.0)	N/A	Albatross	2022/3/2

Dips

Equipment	Model No	Inventory No	Manufacturer	Cal Due Date
Dip test system	PFS 503N32	P2051246036	EM TEST	2022/3/8
Surge, Burst and Dip test system	UCS500-M6B	V0746103125	EM TEST	2022/3/8
booster	MV2616	V0746103126	EM TEST	2022/3/8
Shielding Room2	(10*4.9*3.0)	N/A	Albatross	2022/3/2

CI

Equipment	Model No	Inventory No	Manufacturer	Cal Due Date
Attenuator	75-A-FFN-06	1606	BIRD	2022/3/8
CDN for Two/Three Supply Main Line	CDN-M2+3	A2210412/2016	Frankonia	2022/3/8
Decoupling network	F-2031-23MM-DCN	8225	FISCHER	2022/3/8
EM injection clamp	F-2031-23MM	8562	FISCHER	2022/3/8
Conduct Immunity Test System	CIT-10-75	126B1413/2016	Frankonia	2022/3/8
Shielding Room2	(10*4.9*3.0)	N/A	Albatross	2022/3/2



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6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	EN IEC 55014-1:2021
Test Method:	CISPR 16-2-1
Frequency Range:	150kHz to 30MHz
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

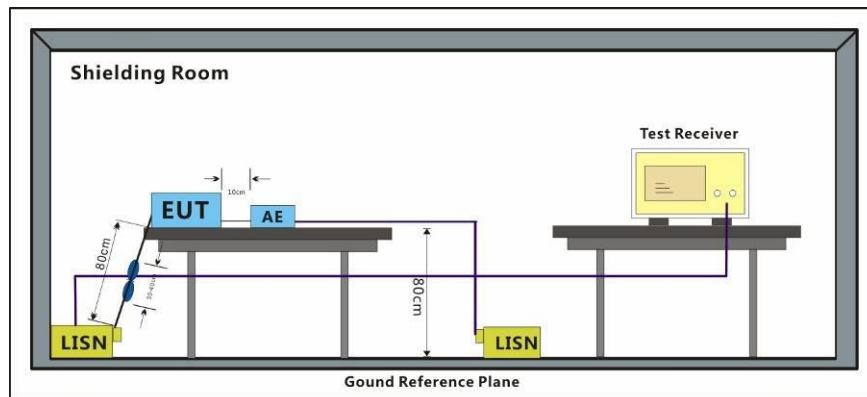
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode a: Heating mode: Keep EUT heating continuously.

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

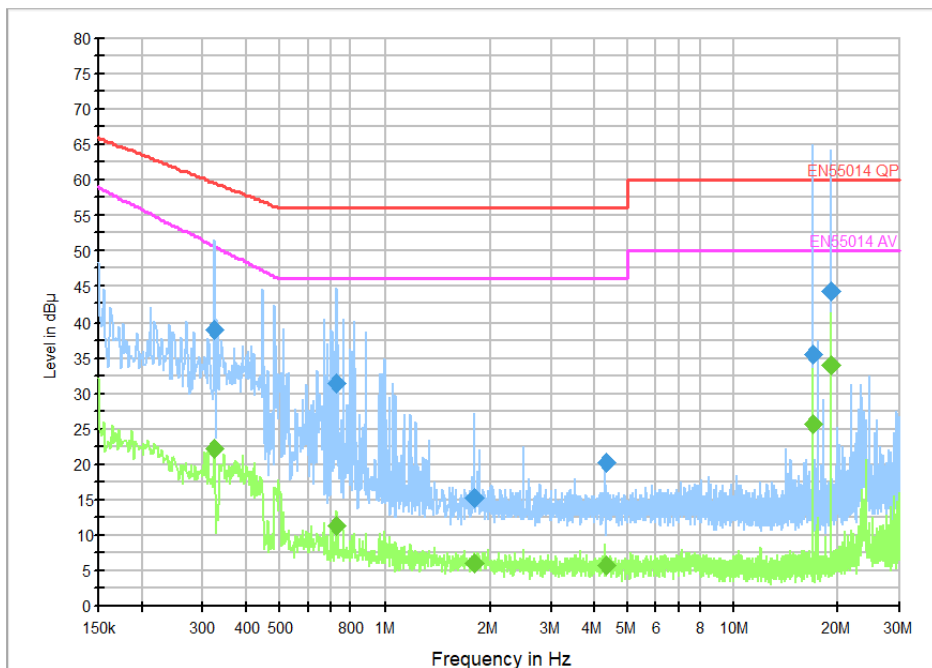
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



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Mode:a; Line:Live Line



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.324000	38.9	1000.0	9.000	Off	L1	10.8	20.7	59.6	
0.728000	31.5	1000.0	9.000	Off	L1	10.7	24.5	56.0	
1.808000	15.3	1000.0	9.000	Off	L1	10.7	40.7	56.0	
4.328000	20.3	1000.0	9.000	Off	L1	10.8	35.7	56.0	
16.944000	35.4	1000.0	9.000	Off	L1	10.9	24.6	60.0	
19.037000	44.3	1000.0	9.000	Off	L1	10.9	15.7	60.0	

Final Result 2

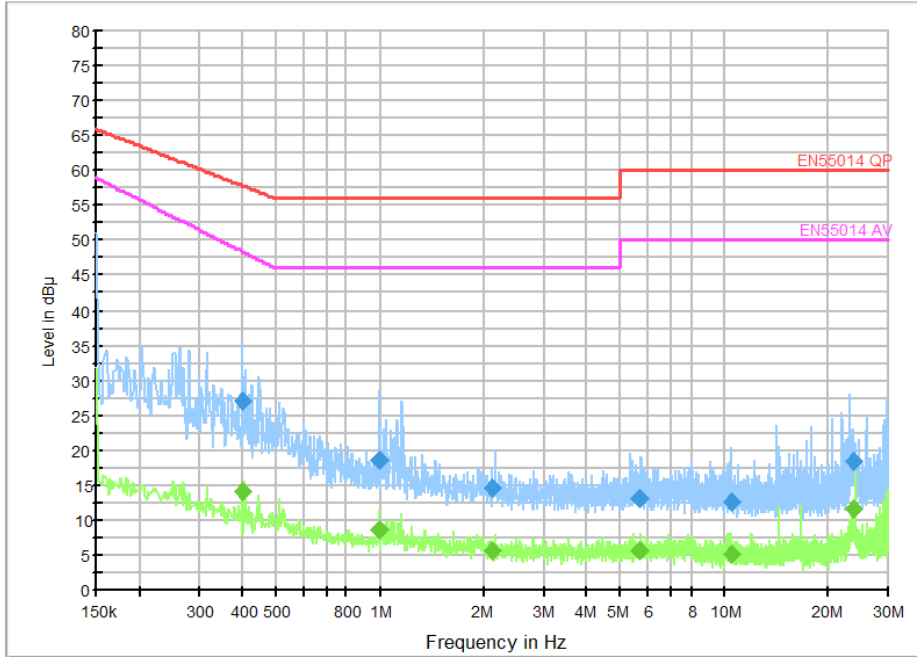
Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.324000	22.1	1000.0	9.000	Off	L1	10.7	28.7	50.8	
0.728000	11.3	1000.0	9.000	Off	L1	10.8	34.7	46.0	
1.808000	6.1	1000.0	9.000	Off	L1	10.7	39.9	46.0	
4.328000	5.7	1000.0	9.000	Off	L1	10.8	40.3	46.0	
16.944000	25.6	1000.0	9.000	Off	L1	10.9	24.4	50.0	
19.037000	33.8	1000.0	9.000	Off	L1	10.9	16.2	50.0	



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Mode:a; Line:Neutral Line



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.400000	27.2	1000.0	9.000	Off	N	10.7	30.7	57.9	
0.992000	18.7	1000.0	9.000	Off	N	10.8	37.3	56.0	
2.113000	14.6	1000.0	9.000	Off	N	10.8	41.4	56.0	
5.679000	13.1	1000.0	9.000	Off	N	10.9	46.9	60.0	
10.457000	12.8	1000.0	9.000	Off	N	10.9	47.2	60.0	
23.664000	18.5	1000.0	9.000	Off	N	10.9	41.5	60.0	

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.400000	14.2	1000.0	9.000	Off	N	10.8	34.2	48.4	
0.992000	8.7	1000.0	9.000	Off	N	10.8	37.3	46.0	
2.113000	5.8	1000.0	9.000	Off	N	10.8	40.2	46.0	
5.679000	5.7	1000.0	9.000	Off	N	10.9	44.3	50.0	
10.457000	5.2	1000.0	9.000	Off	N	10.9	44.8	50.0	
23.664000	11.6	1000.0	9.000	Off	N	11.0	38.4	50.0	



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6.2 Discontinuous Disturbance (150kHz-30MHz)

Test Requirement:	EN IEC 55014-1:2021		
Test Method:	EN IEC 55014-1:2021		
Frequency Range:	150kHz to 30MHz		
Limit:			
0.15MHz	Limit=66dB(μV)+Lq	Lq= 44 dB	N < 0.2
	Lq= 20 lg(30/N) dB	0.2 ≤ N < 30	
0.5MHz	Limit=56dB(μV)+Lq	Lq= 44 dB	N < 0.2
	Lq= 20 lg(30/N) dB	0.2 ≤ N < 30	
1.4MHz	Limit=56dB(μV)+Lq	Lq= 44 dB	N < 0.2
	Lq=20 lg(30/N) dB	0.2 ≤ N < 30	
30MHz	Limit=60dB(μV)+Lq	Lq= 44 dB	N < 0.2
	Lq= 20 lg(30/N) dB	0.2 ≤ N < 30	

Lq is click limit, N is click rates

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

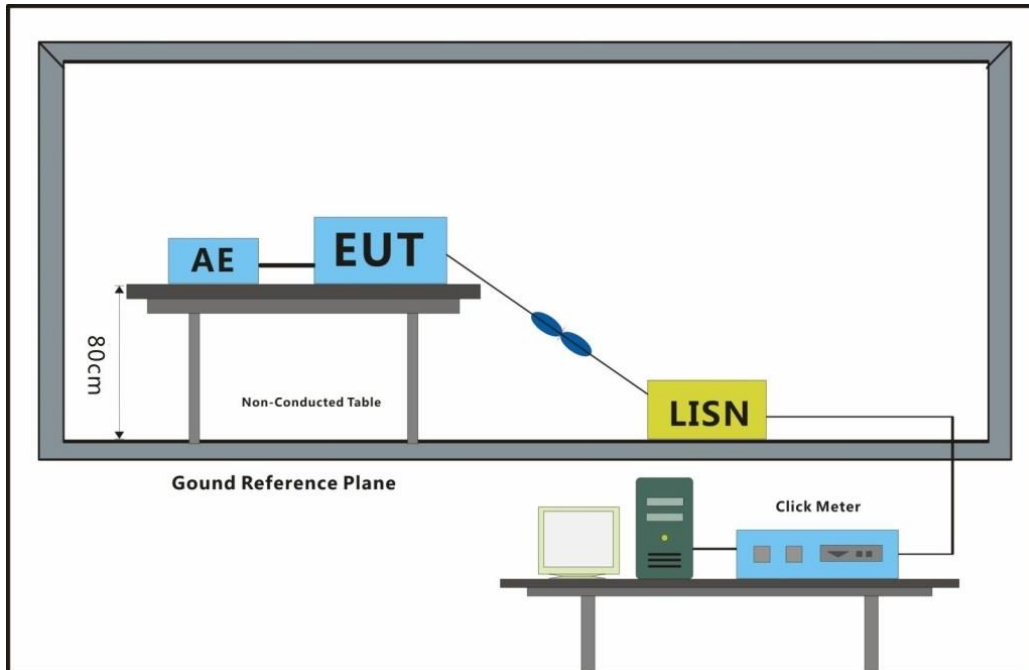
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode a: Heating mode: Keep EUT heating continuously.

6.2.2 Test Setup Diagram



6.2.3 Measurement Data



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SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center (E.M.C.)

NO.588 West Jindu Road, Songjiang District, Shanghai, China 201612
中国·上海·松江区金都西路588号 邮编: 201612

(86-21) 61915666 f(86-21) 61915678 www.sgsgroup.com.cn
(86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com

Mode:a

Run A Observation time T1= 76mins30secs				
Switching Operation: -			Factor: -	
Frequency (MHz)	150kHz	500kHz	1.4MHz	30MHz
Limit value (L) (dBµV)	66	56	56	60
Short clicks	40	37	35	0
long clicks	0	0	0	0
Total (short + long) n	40	37	35	0
Click Rate:	0.52	0.46	0.46	0.46
<input checked="" type="checkbox"/> EUT has a click rate N of not more than five and which has instantaneous switching (the duration of each click is less than 10ms) shall be deemed to comply the limits, independent of the amplitude of the clicks.				
Run B Observation time T2=-				
Frequency (MHz)	150kHz	500kHz	1.4MHz	30MHz
Limit value (L) (dBµV)				
Short clicks				
long clicks				
Total (short + long) n				
Limit=Run A/4				



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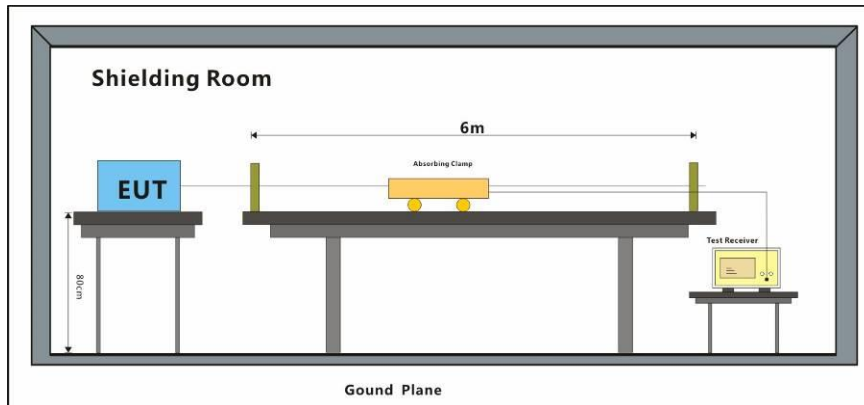
6.3 Disturbance Power

Test Requirement: EN IEC 55014-1:2021
 Test Method: CISPR 16-2-2
 Frequency Range: 30MHz to 300MHz
 Limit:
 30MHz- 300MHz 45dB(pW)-55dB(pW) quasi-peak, 35dB(pW)-45dB(pW) average
 With an additional margin as below:
 200MHz - 300MHz: 0dB(pW)-10dB(pW) quasi-peak, 0dB(pW) average
 Note: Increasing linearly with the frequency.
 Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 300MHz

6.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar
 Test mode a: Heating mode: Keep EUT heating continuously.

6.3.2 Test Setup Diagram



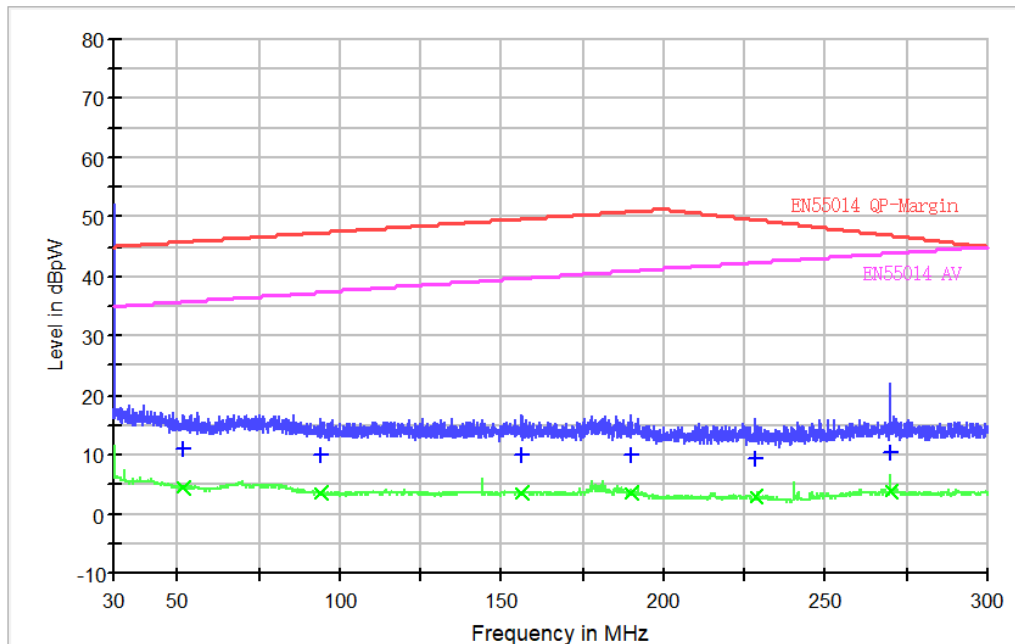
6.3.3 Measurement Data

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.



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Mode:a



Limit and Margin-QP

Frequency (MHz)	QuasiPeak (dBpW)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBpW)	Comment
51.660000	11.1	1000.0	120.000	6.9	34.7	45.8	
93.720000	10.1	1000.0	120.000	6.4	37.3	47.4	
156.240000	10.2	1000.0	120.000	5.6	39.5	49.7	
189.660000	10.1	1000.0	120.000	5.4	40.8	50.9	
228.180000	9.5	1000.0	120.000	5.0	40.0	49.5	
270.120000	10.3	1000.0	120.000	6.2	36.6	46.9	

Limit and Margin-AV

Frequency (MHz)	Average (dBpW)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBpW)	Comment
51.660000	4.5	1000.0	120.000	6.9	31.3	35.8	
93.720000	3.5	1000.0	120.000	6.4	33.9	37.4	
156.240000	3.6	1000.0	120.000	5.6	36.1	39.7	
189.660000	3.5	1000.0	120.000	5.4	37.4	40.9	
228.180000	2.9	1000.0	120.000	5.0	39.4	42.3	
270.120000	3.7	1000.0	120.000	6.2	40.2	43.9	



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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

Frequency Range: 100Hz to 2kHz

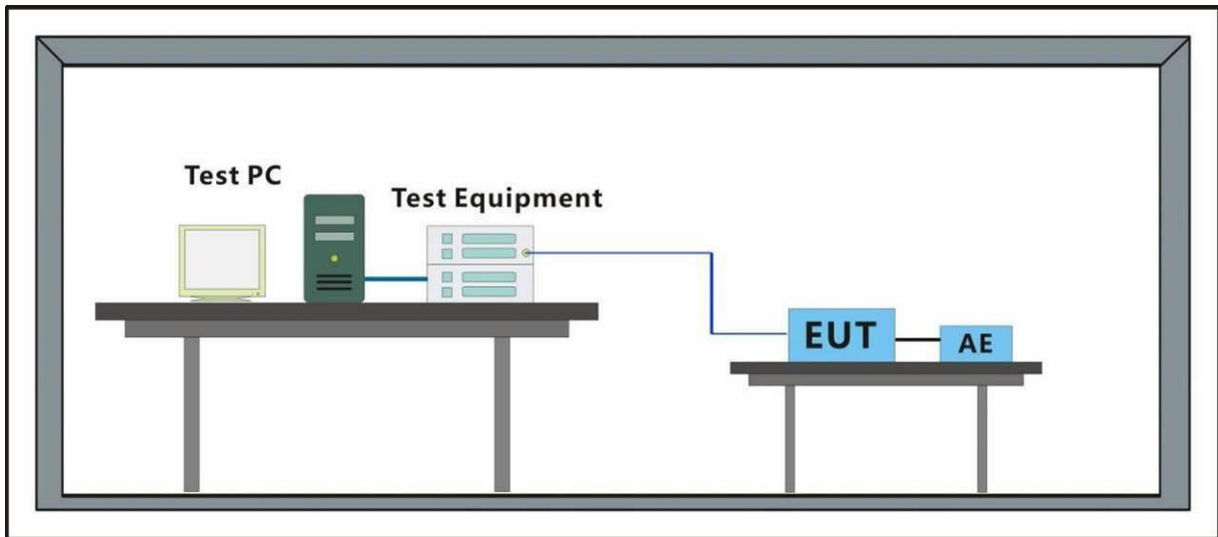
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode a: Heating mode: Keep EUT heating continuously.

6.4.2 Test Setup Diagram



6.4.3 Measurement Data



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Mode:a

Average harmonic current results

Hn	I _{eff} [A]	I _{eff} [%]	Limit [A]	Result
1	6.468	100.000		
2	1.803E-3	0.167	1.08	PASS
3	12.887E-3	0.560	2.30	PASS
4	3.498E-3	0.813	430.00E-3	PASS
5	3.661E-3	0.321	1.14	PASS
6	1.325E-3	0.442	300.00E-3	PASS
7	1.202E-3	0.156	770.00E-3	PASS
8	1.143E-3	0.497	230.00E-3	PASS
9	1.640E-3	0.410	400.00E-3	PASS
10	1.163E-3	0.632	184.00E-3	PASS
11	1.060E-3	0.321	330.00E-3	PASS
12	1.164E-3	0.759	153.33E-3	PASS
13	1.453E-3	0.692	210.00E-3	PASS
14	1.363E-3	1.037	131.43E-3	PASS
15	1.068E-3	0.712	150.00E-3	PASS
16	1.045E-3	0.909	115.00E-3	PASS
17	1.101E-3	0.832	132.35E-3	PASS
18	1.792E-3	1.753	102.22E-3	PASS
19	1.070E-3	0.904	118.42E-3	PASS
20	1.067E-3	1.160	92.00E-3	PASS
21	1.076E-3	0.670	160.71E-3	PASS
22	1.373E-3	1.642	83.64E-3	PASS
23	1.414E-3	0.964	146.74E-3	PASS
24	1.111E-3	1.449	76.66E-3	PASS
25	1.032E-3	0.764	135.00E-3	PASS
26	1.098E-3	1.552	70.77E-3	PASS
27	1.559E-3	1.247	124.99E-3	PASS
28	1.029E-3	1.566	65.71E-3	PASS
29	1.065E-3	0.915	116.39E-3	PASS
30	1.085E-3	1.769	61.33E-3	PASS
31	1.336E-3	1.227	108.87E-3	PASS
32	1.423E-3	2.475	57.50E-3	PASS
33	1.088E-3	1.064	102.27E-3	PASS
34	1.064E-3	1.966	54.12E-3	PASS
35	1.111E-3	1.152	96.44E-3	PASS
36	1.485E-3	2.905	51.11E-3	PASS
37	1.077E-3	1.181	91.21E-3	PASS
38	1.042E-3	2.152	48.42E-3	PASS
39	1.137E-3	1.314	86.53E-3	PASS
40	1.204E-3	2.617	46.00E-3	PASS



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Maximum harmonic current results

Hn	I _{eff} [A]	I _{eff} [%]	Limit [A]	Result
1	6.470	100.000		
2	1.970E-3	0.122	1.62	PASS
3	12.979E-3	0.376	3.45	PASS
4	3.657E-3	0.567	645.00E-3	PASS
5	3.784E-3	0.221	1.71	PASS
6	1.428E-3	0.317	450.00E-3	PASS
7	1.294E-3	0.113	1.15	PASS
8	1.227E-3	0.356	345.00E-3	PASS
9	1.818E-3	0.303	600.00E-3	PASS
10	1.242E-3	0.450	276.00E-3	PASS
11	1.132E-3	0.229	495.00E-3	PASS
12	1.248E-3	0.543	229.99E-3	PASS
13	1.596E-3	0.507	315.00E-3	PASS
14	1.553E-3	0.788	197.15E-3	PASS
15	1.131E-3	0.503	225.00E-3	PASS
16	1.125E-3	0.652	172.50E-3	PASS
17	1.180E-3	0.594	198.52E-3	PASS
18	1.895E-3	1.236	153.33E-3	PASS
19	1.189E-3	0.669	177.63E-3	PASS
20	1.181E-3	0.856	138.00E-3	PASS
21	1.170E-3	0.728	160.71E-3	PASS
22	1.526E-3	1.216	125.46E-3	PASS
23	1.509E-3	1.028	146.74E-3	PASS
24	1.172E-3	1.019	114.99E-3	PASS
25	1.111E-3	0.823	135.00E-3	PASS
26	1.205E-3	1.135	106.16E-3	PASS
27	1.662E-3	1.330	124.99E-3	PASS
28	1.109E-3	1.125	98.57E-3	PASS
29	1.156E-3	0.993	116.39E-3	PASS
30	1.143E-3	1.242	92.00E-3	PASS
31	1.455E-3	1.336	108.87E-3	PASS
32	1.472E-3	1.707	86.25E-3	PASS
33	1.190E-3	1.164	102.27E-3	PASS
34	1.180E-3	1.454	81.18E-3	PASS
35	1.183E-3	1.227	96.44E-3	PASS
36	1.537E-3	2.005	76.66E-3	PASS
37	1.163E-3	1.275	91.21E-3	PASS
38	1.117E-3	1.538	72.63E-3	PASS
39	1.257E-3	1.453	86.53E-3	PASS
40	1.317E-3	1.909	69.00E-3	PASS



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Maximum harmonic voltage results

Hn	Ueff [V]	Ueff [%]	Limit [%]	Result
1	229.84	99.929		
2	88.11E-3	0.038	0.2	PASS
3	513.84E-3	0.223	0.9	PASS
4	46.90E-3	0.020	0.2	PASS
5	68.56E-3	0.030	0.4	PASS
6	42.66E-3	0.019	0.2	PASS
7	14.54E-3	0.006	0.3	PASS
8	11.27E-3	0.005	0.2	PASS
9	25.98E-3	0.011	0.2	PASS
10	20.43E-3	0.009	0.2	PASS
11	9.56E-3	0.004	0.1	PASS
12	11.77E-3	0.005	0.1	PASS
13	9.76E-3	0.004	0.1	PASS
14	9.59E-3	0.004	0.1	PASS
15	9.68E-3	0.004	0.1	PASS
16	11.06E-3	0.005	0.1	PASS
17	8.05E-3	0.003	0.1	PASS
18	14.96E-3	0.007	0.1	PASS
19	6.77E-3	0.003	0.1	PASS
20	10.33E-3	0.004	0.1	PASS
21	7.46E-3	0.003	0.1	PASS
22	6.71E-3	0.003	0.1	PASS
23	5.57E-3	0.002	0.1	PASS
24	10.58E-3	0.005	0.1	PASS
25	6.37E-3	0.003	0.1	PASS
26	6.98E-3	0.003	0.1	PASS
27	10.12E-3	0.004	0.1	PASS
28	5.82E-3	0.003	0.1	PASS
29	5.36E-3	0.002	0.1	PASS
30	7.65E-3	0.003	0.1	PASS
31	4.58E-3	0.002	0.1	PASS
32	5.69E-3	0.002	0.1	PASS
33	6.11E-3	0.003	0.1	PASS
34	7.95E-3	0.003	0.1	PASS
35	5.41E-3	0.002	0.1	PASS
36	8.10E-3	0.004	0.1	PASS
37	5.18E-3	0.002	0.1	PASS
38	5.12E-3	0.002	0.1	PASS
39	4.81E-3	0.002	0.1	PASS
40	6.57E-3	0.003	0.1	PASS

Power and THD results - DS: 11

True power P:	1.487kW	Apparent power S:	1.487kVA
Reactiv power Q:	3.013var	Power factor:	1.000
THD (U):	0.002	THD (I):	0.002
Crest Factor (U):	1.413	Crest Factor (I):	1.411



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6.5 Voltage Fluctuations and Flicker

Test Requirement: EN 61000-3-3:2013+A1:2019+A2:2021

Test Method: EN 61000-3-3:2013+A1:2019+A2:2021

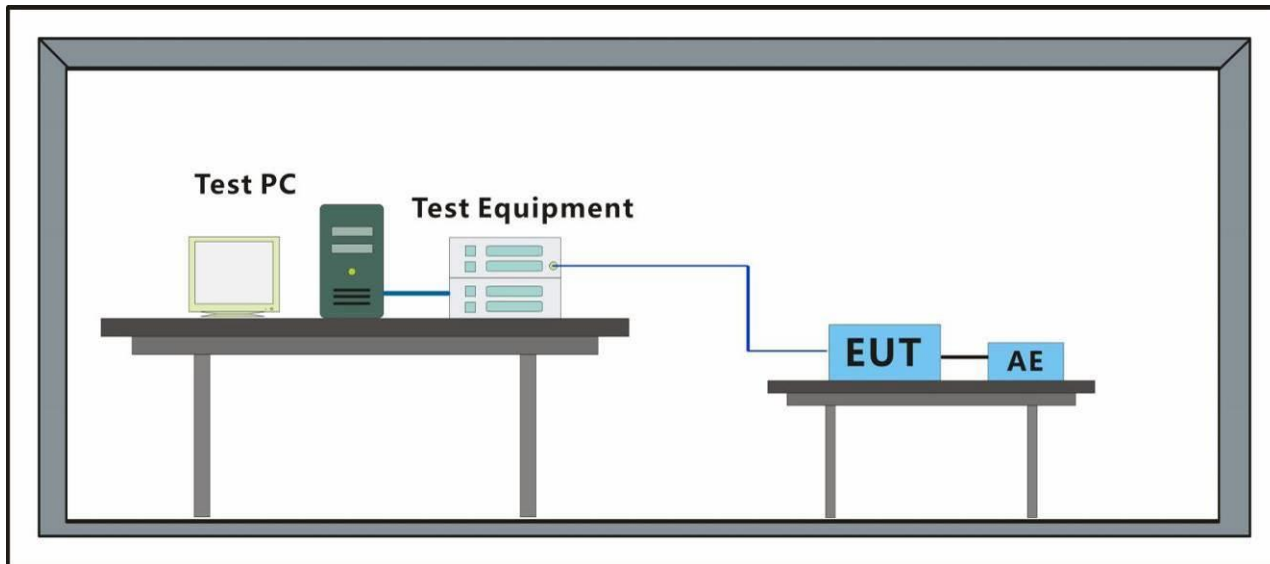
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode a: Heating mode: Keep EUT heating continuously.

6.5.2 Test Setup Diagram



6.5.3 Measurement Data

Mode:a

Maximum Flicker results

	EUT values	Limit	Result
Pst	0.796	1.00	PASS
dc [%]	1.422	3.30	PASS
dmax [%]	1.686	4.00	PASS
Tmax [s]	0.000	0.50	PASS



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7 Immunity Test Results

7.1 Performance Criteria Description in EN IEC 55014-2:2021

- Criterion A** The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.
- Criterion B** The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however. No change of actual operating 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 derived from the product description and documentation and from what the user may reasonably expect from the apparatus if used as intended.
- Criterion C** Temporary loss of function is allowed, provided the function is self recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.



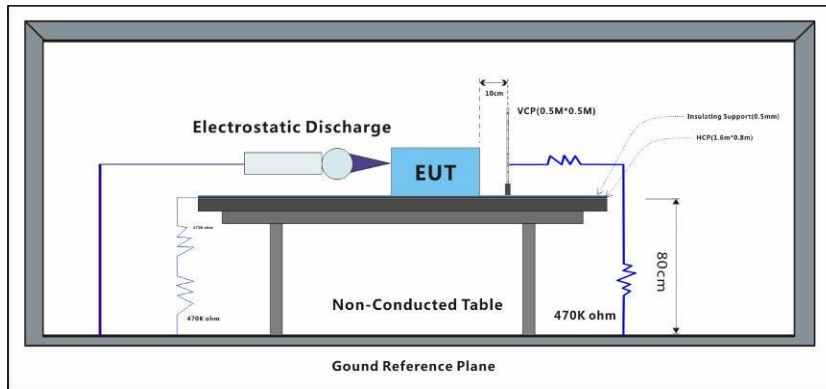
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7.2 Electrostatic Discharge

Test Requirement: EN IEC 55014-2:2021
 Test Method: EN 61000-4-2:2009
 Performance Criterion: B
 Discharge Impedance: 330Ω/150pF
 Number of Discharge: Minimum 10 times at each test point
 Discharge Mode: Single Discharge
 Discharge Period: 1 second minimum

7.2.1 Test Setup Diagram



7.2.2 E.U.T. Operation

Operating Environment:
 Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar
 Test mode: a: Heating mode: Keep EUT heating continuously.

7.2.3 Test Results:

Observations: Test Point:
 1. All insulated enclosure and seams.
 2. All accessible metal parts of the enclosure.
 3. All side

Discharge type	Level (kV)	Polarity	Test Point	Result / Observations
Air Discharge	8	+	1	A
Air Discharge	8	-	1	A
Contact Discharge	4	+	2	N/A
Contact Discharge	4	-	2	N/A
Horizontal Coupling	4	+	3	A
Horizontal Coupling	4	-	3	A
Vertical Coupling	4	+	3	A
Vertical Coupling	4	-	3	A

Results:

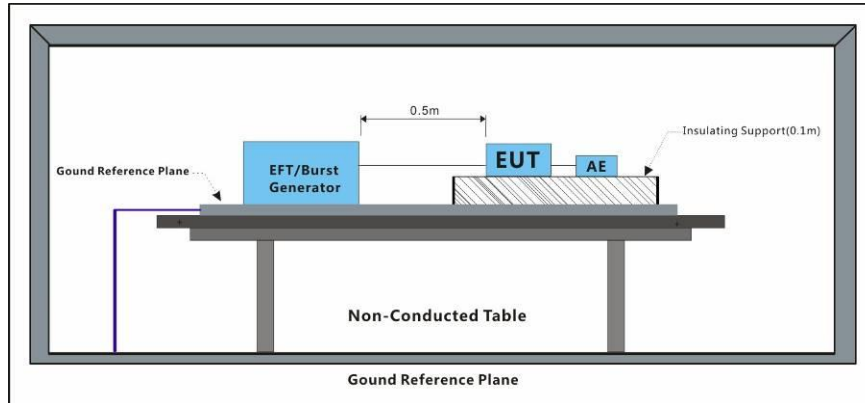
A: No degradation in the performance of the EUT was observed.



7.3 Electrical Fast Transients/Burst at Power Port

Test Requirement: EN IEC 55014-2:2021
 Test Method: EN 61000-4-4:2012
 Performance Criterion: B
 Repetition Frequency: 5kHz
 Burst Period: 300ms
 Test Duration: 2 minute per level & polarity

7.3.1 Test Setup Diagram



7.3.2 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode: a: Heating mode: Keep EUT heating continuously.

7.3.3 Test Results:

Test Line	Level (kV)	Polarity	CDN/Clamp	Result / Observations
AC power port	1	+	CDN	A
AC power port	1	-	CDN	A

Results:

A: No degradation in the performance of the EUT was observed.

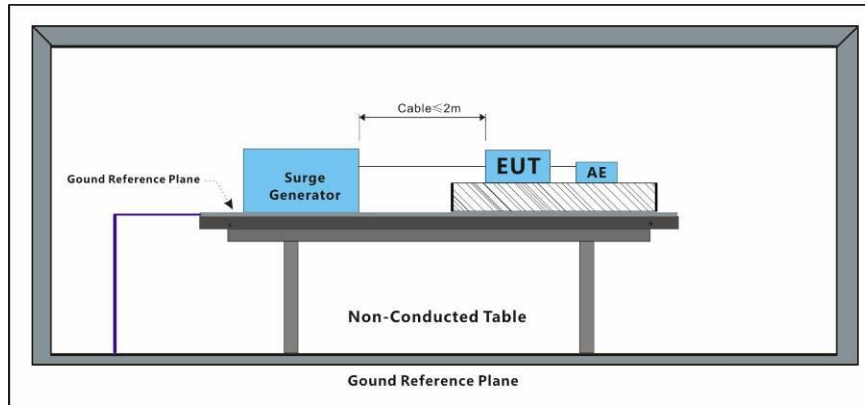


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7.4 Surge at Power Port

Test Requirement: EN IEC 55014-2:2021
 Test Method: EN 61000-4-5:2014 +A1:2017
 Performance Criterion: B
 Interval: 60s between each surge
 No. of surges: 5 positive at 90°, 5 negative at 270°.

7.4.1 Test Setup Diagram



7.4.2 E.U.T. Operation

Operating Environment:
 Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar
 Test mode: a: Heating mode: Keep EUT heating continuously.

7.4.3 Test Results:

Test Line	Level (kV)	Polarity	Phase (deg)	Result / Observations
L-N	1	+	90°	A
L-N	1	-	270°	A
L-PE	2	+	90°	A
L-PE	2	-	270°	A
N-PE	2	+	90°	A
N-PE	2	-	270°	A

Results:

A: No degradation in the performance of the EUT was observed.

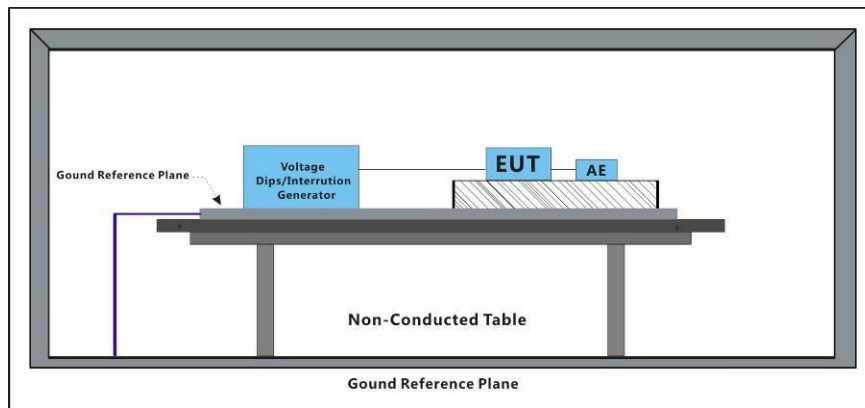


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7.5 Voltage Dips and Interruptions

Test Requirement: EN IEC 55014-2:2021
 Test Method: EN 61000-4-11:2004 +A1:2017
 Performance Criterion: For 50Hz:
 0% of UT (Rated Voltage) for 0.5 Cycle: C;
 40% of UT for 10 Cycle: C;
 70% of UT for 25 Cycle: C
 For 60Hz:
 0% of UT (Rated Voltage) for 0.5 Cycle: C;
 40% of UT for 12 Cycle: C;
 70% of UT for 30 Cycle: C
 No. of Dips / Interruptions: 3 per Level
 Time between dropout 10s

7.5.1 Test Setup Diagram



7.5.2 E.U.T. Operation

Operating Environment:
 Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar
 Test mode: a: Heating mode: Keep EUT heating continuously.

7.5.3 Test Results:

Level % UT	Phase (deg)	Duration	No. of Dips / Interruptions	Result / Observations
0	0°	0.5 Cycles	3	A
0	180°	0.5 Cycles	3	A
40	0°	10 Cycles	3	A
40	180°	10 Cycles	3	A
70	0°	25 Cycles	3	A
70	180°	25 Cycles	3	A

Results:

A: No degradation in the performance of the EUT was observed.

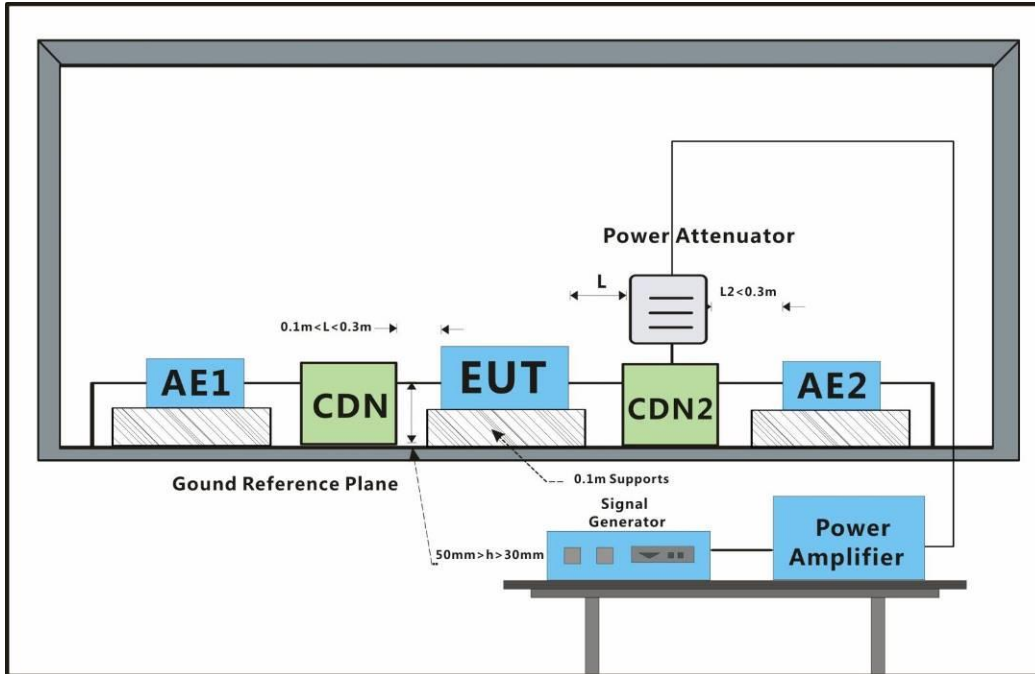


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7.6 Conducted Immunity at Power Port (150kHz-230MHz)

Test Requirement: EN IEC 55014-2:2021
 Test Method: EN 61000-4-6:2014
 Performance Criterion: A
 Frequency Range: 0.15MHz to 230MHz
 Modulation: 80%, 1kHz Amplitude Modulation
 Step Size: 1%

7.6.1 Test Setup Diagram



7.6.2 E.U.T. Operation

Operating Environment:
 Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar
 Test mode: a: Heating mode: Keep EUT heating continuously.

7.6.3 Test Results:

Cable port	Level (Vrms)	CDN/Clamp	Dwell time	Result / Observations
AC power port	3	CDN	3s	A

Results:

A: No degradation in the performance of the EUT was observed.



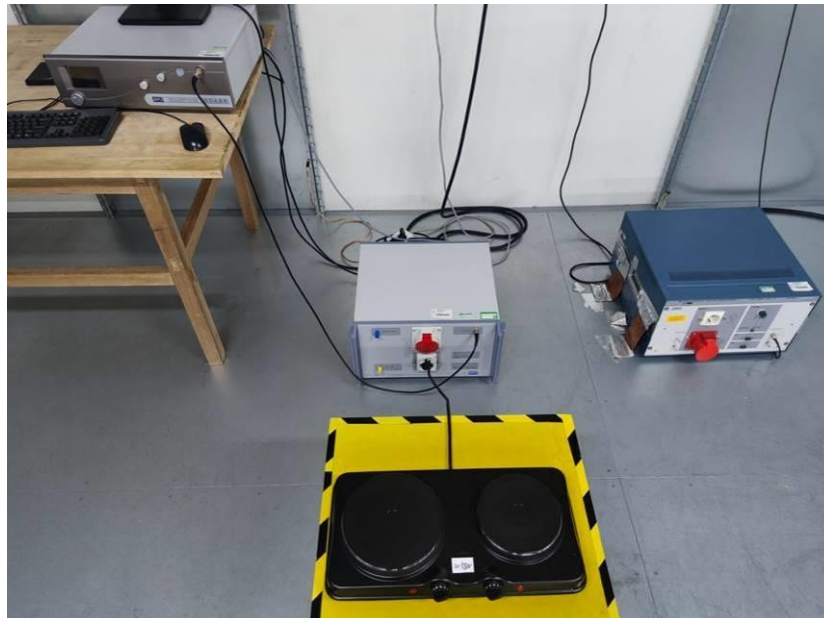
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8 Photographs

8.1 Conducted Emissions at Mains Terminals (150kHz-30MHz) Test Setup



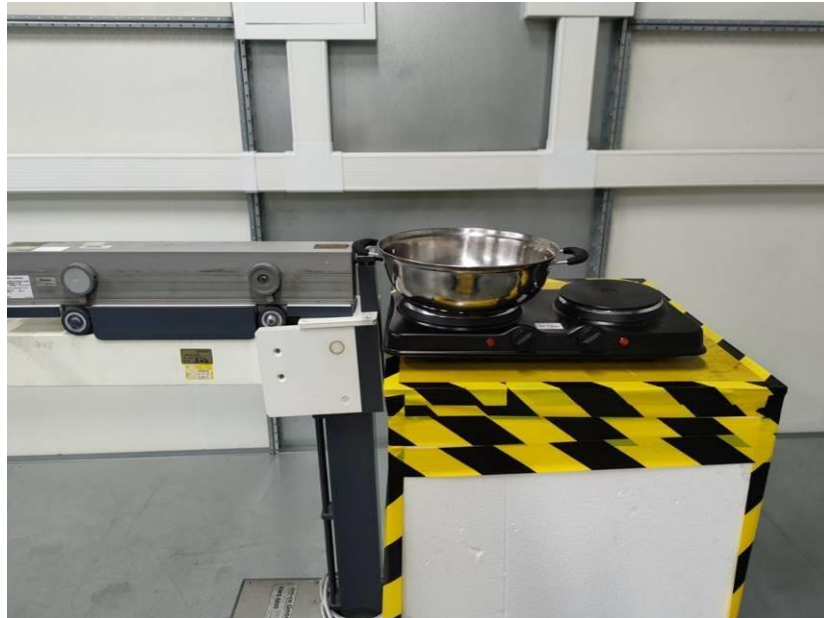
8.2 Discontinuous Disturbance (150kHz-30MHz) Test Setup



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8.3 Disturbance Power Test Setup



8.4 Harmonic & Voltage Fluctuations and Flicker Test Setup



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8.5 Electrostatic Discharge Test Setup



8.6 Electrical Fast Transients/Burst at Power Port Test Setup



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8.7 Surge at Power Port Test Setup



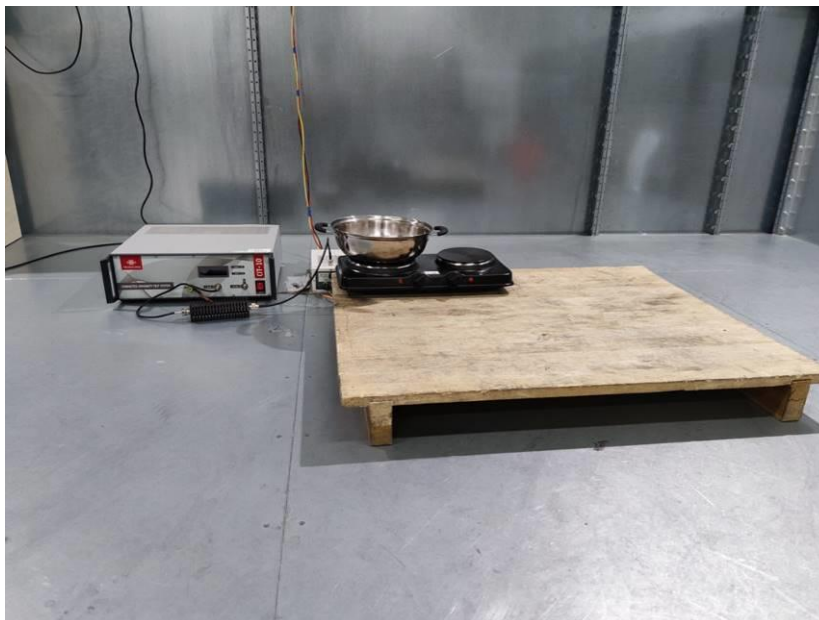
8.8 Voltage Dips and Interruptions Test Setup



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8.9 Conducted Immunity at Power Port (150kHz-230MHz) Test Setup



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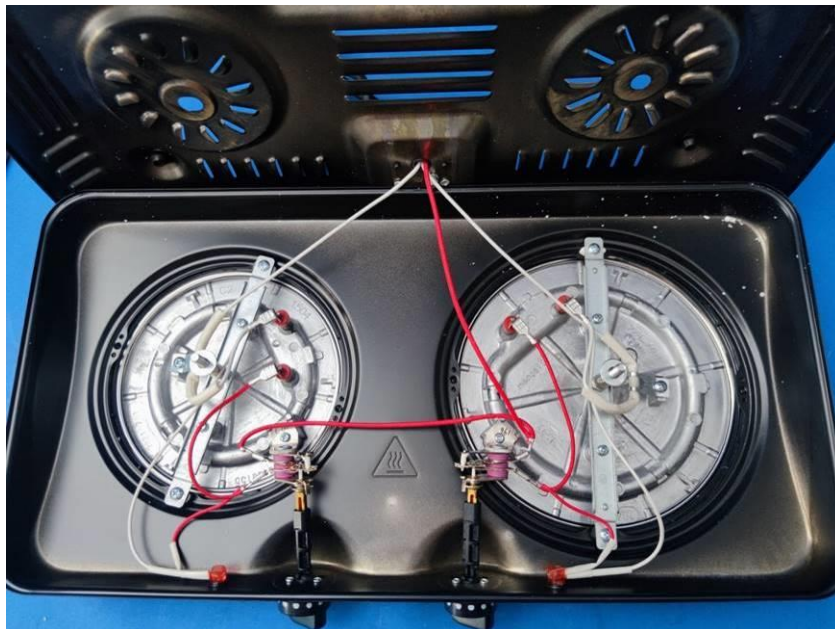
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8.10 EUT Constructional Details (EUT Photos)



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