



**SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch**

198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technological
Development District, Guangzhou, China 510663
Telephone: +86 (0) 20 82155555
Fax: +86 (0) 20 82075059
Email: ee.guangzhou@sgs.com

Report No.: GZEM160800595303
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TEST REPORT

Application No.: GZEM1909015615HS
Applicant:
Address of Applicant:
Manufacturer:
Address of Manufacturer:

Equipment Under Test (EUT):

EUT Name: Washing Machine
Model No.: XQG90-T514E, XQG90-T512E, XQG80-T514E, XQG80-T512E
☐
☐ Please refer to section 2 of this report for more details

Trade Mark:

Standard(s) : EN 55014-1:2017
EN 61000-3-2:2014
EN 61000-3-3:2013
EN 55014-2:2015

Date of Receipt: 2019-09-05
Date of Test: 2019-09-09 to 2019-09-16
Date of Issue: 2016-11-16 (for original report GZEM160800595301)
2017-07-11 (for the report GZEM160800595302)
2019-09-24 (for the report GZEM160800595303)

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

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.

Kobe Jian

EMC Laboratory Manager



The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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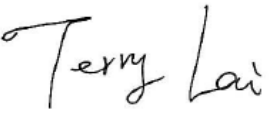


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Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2016-11-16		Original
01		2017-07-11		Copy report: alternated motor.
02		2019-09-24		Copy report: Add two new Model No., alternated main board and updated standard.

Authorized for issue by:			
Tested By			2019-09-09 to 2019-09-16
	Damon_Guan /Project Engineer		Date
Checked By			2019-09-24
	Terry_Lai /Reviewer		Date



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	EN 55014-1:2017	CISPR 16-2-1	N/A	Pass
Discontinuous Disturbance (150kHz-30MHz)	EN 55014-1:2017	EN 55014-1:2017	N/A	Pass
Disturbance Power	EN 55014-1:2017	CISPR 16-2-2	N/A	Pass
Harmonic Current Emission	EN 61000-3-2:2014	EN 61000-3-2:2014	Class A	Pass
Voltage Fluctuations and Flicker	EN 61000-3-3:2013	EN 61000-3-3:2013	Clause 5 of EN 61000-3-3	Pass

N/A: Not applicable

Immunity Part				
Item	Standard	Method	Requirement	Result
Electrostatic Discharge	EN 55014-2:2015	EN 61000-4-2:2009	4kV Contact Discharge 8kV Air Discharge	Pass
Electrical Fast Transients/Burst at Power Port	EN 55014-2:2015	EN 61000-4-4:2012	1kV 5/50ns Tr/Td 5kHz Repetition Frequency	Pass
Surge at Power Port	EN 55014-2:2015	EN 61000-4-5:2014	1.2/50µs Tr/Td 1kV Line to Line 2kV Line to Ground	Pass
Voltage Dips and Interruptions	EN 55014-2:2015	EN 61000-4-11:2004	For 50Hz: 0 % UT for 0.5 cycles 40 % UT for 10 cycles 70 % UT for 25 cycles For 60Hz: 0 % UT for 0.5 cycles 40 % UT for 12 cycles 70 % UT for 30 cycles UT is Supply Voltage	Pass
Conducted Immunity at Power Port (150kHz-230MHz)	EN 55014-2:2015	EN 61000-4-6:2014	3Vrms (emf), 80%, 1kHz Amp. Mod.	Pass



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Remark for original report GZEM160800595301:

Declaration of EUT Family Grouping:

Model No.: XQG90-T514E, XQG90-T512E

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 rotate speed.

Therefore Model **XQG90-T514E** was performed all tests and model **XQG90-T512E** was performed Conducted Disturbance at Mains Terminals(150KHz-30MHz), Disturbance Power tests in original report

Remark for the report GZEM160800595302:

This test report GZEM160800595302 was based on and only valid with the original test report GZEM160800595301, only alternated new motor.

According to the declaration of the applicant, the models in this report and models in the original report were identical, with only difference being the motor:

Motor in original report GZEM160800595301

Washing motor	Askoll (China) Motor Technologies Co., Ltd	MCC52/64-148/GAL2	220-240V, 50Hz, Class 155
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Motor in report GZEM160800595302

Washing motor (Alternative)	Jiangsu Sanjiang Electric Appliances Group Co., Ltd.	HC-220L	220-240V, 50/60Hz, Class 155
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Considering to the differences of new motor, Conducted Disturbance at Mains Terminals (150kHz-30MHz), Discontinuous Disturbance (150kHz-30MHz), Disturbance Power, Harmonic Current Emission, Voltage Fluctuations and Flicker tests were performed on model **XQG90-T514E** in this report.

Only new data was shown in report **GZEM160800595302**. Tests for original data please refer to original report **GZEM160800595301**.

Remark for the report GZEM160800595303:

This report GZEM160800595303 was a supplemented report based on report GZEM160800595302 and only valid with the original reports GZEM160800595301 & GZEM160800595302, just added two new models (XQG80-T514E, XQG80-T512E), alternated new main board for all models and updated below standard.

Standard(s) in original report	Standard(s) in updated report
EN 55014-1:2006 +A1:2009+A2:2011	EN 55014-1:2017

Reviewed the updated standards, all the technical requirements for the product between original and the newest standards' versions are identical.

According to the declaration from the applicant, the add two new models are only with HC-220L motor, they are identical in the electrical circuit design, layout, components used and internal wiring with original model, with only difference being the model name.

Model XQG80-T514E is 1400 rotate speed.

Model XQG80-T512E is 1200 rotate speed.

Considering to the new main board, only one model **XQG80-T514E** (with new main board) was tested in this report. Tests for model with original main board please refer to original reports GZEM160800595301 and GZEM160800595302 for details.



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4 General Information

4.1 Details of E.U.T.

Power Supply:	AC 220-240V 50Hz
Test Voltage:	AC 230V 50Hz
Cable:	3 wires about 1.5m unscreened AC mains cable

4.2 Description of Support Units

The EUT has been tested with water and cloths as load.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conducted Disturbance Voltage at Mains Terminals	±3.63dB (9kHz to 150kHz)
		±3.22dB (150kHz to 30MHz)
2	Disturbance Power	±3.78dB
3	Radiated Emissions	±5.0dB (30MHz-1GHz)
		±5.0dB (1GHz-6GHz)
4	Radiated Immunity	±2.18dB(80MHz-3GHz)
5	Conducted Immunity	±3.5dB(150kHz-230MHz)
6	Electrostatic Discharge	±6 %
7	EFT (Electrical Fast Transients)	±4 %
8	Surge Immunity	±6%
9	Voltage Dips and Interruptions	±4 %
10	CISPR 20 Immunity	±1.5dB
11	Temperature	±0.4 °C
12	Humidity	±1.3%
13	DC power	±0.5 %

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.



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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 C-Tick mark as a result of our NVLAP accreditation.

● **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 2.948 Listed Test Firm(Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

● **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, Jul 13, 2017.

● **Industry Canada (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-10449 and T-11179)**

The 10m Semi-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-10449 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 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

4.8 Monitoring of EUT for All Immunity Test

Visual: Motor running & LED displaying



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5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	Zhong Yu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Netwok	R&S	ENV216	EMC0118	2019-01-11	2020-01-10
LISN	R&S	ENV216	EMC2135	2018-09-21	2019-09-20
EMI Test Receiver	Rohde & Schwarz	ESCS30	EMC0506	2018-11-19	2019-11-18
Coaxial Cable	HangTianXing	2m	EMC0107	2018-09-20	2020-09-19
Voltage Probe	SGS	N/A	EMC0106	2018-04-04	2020-04-03
Conical Metal Housing	SGS-EMC	N/A	EMC0167	2018-04-19	2020-04-18
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A

Discontinuous Disturbance (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Click Meter	AFJ	CL55C	EMC2049	2018-06-13	2020-06-12
Coaxial Cable	N/A	1.5m	EMC0206	2018-09-28	2020-09-27
LISN	AFJ	LS16-OPT001	EMC0203	2019-01-11	2020-01-10
Test Software CL55C	AFJ	Ver 7.00	GZE100-67	N/A	N/A

Disturbance Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	Zhong Yu	8m x 3m x 3.8m	EMC0306	N/A	N/A
EMI Test Receiver	Rohde & Schwarz	ESCS30	EMC0506	2018-11-19	2019-11-18
Absorbing Clamp	Beijing Dazhe Co. Ltd.	ZN23201	EMC2040	2019-01-15	2020-01-14
7m Coaxial Cable	SGS	7m	EMC0303	2019-06-28	2021-06-27
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Slide Bar Controller	HD-GmbH	HD50	EMC0305	N/A	N/A
Slide Bar RP	HD-GmbH	KMS560	EMC0103	N/A	N/A
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A

Harmonic Current Emission					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
AC Power Source	California	50001iX	EMC0608	2019-04-01	2020-03-31
Power Analyzer	California	PACS	EMC0607	2019-04-01	2020-03-31
Test Software CTS4	California	Ver 4.14.0	GZE100-66	N/A	N/A

Voltage Fluctuations and Flicker					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
AC Power Source	California	50001iX	EMC0608	2019-04-01	2020-03-31
Power Analyzer	California	PACS	EMC0607	2019-04-01	2020-03-31
Test Software CTS4	California	Ver 4.14.0	GZE100-66	N/A	N/A



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Electrostatic Discharge					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
ESD Simulator	TESEQ AG	NSG 435	EMC2071	2019-03-07	2020-03-06
ESD Ground Plane	SGS	3m x 3m	EMC0804	N/A	N/A
Temperature & Humidity	Shanghai Meteorological Instrument Factory Co., Ltd.	ZJ1-2B	EMC0078	2018-10-11	2019-10-10

Electrical Fast Transients/Burst at Power Port					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMC Immunity Test System	TESEQ AG	NSG 3060 CDN3061 INA	EMC2072	2019-01-11	2020-01-10
Oscilloscope	Tektronix	TDS3052C	EMC2055	2019-01-11	2020-01-10
Test Software WIN 3000	TESEQ AG	Ver 1.3.2	GZE100-68	N/A	N/A

Surge at Power Port					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Modular Impulse Surge Generator	EMC PARTNER	MIG0603EN	EMC2059	2019-01-11	2020-01-10
EMC Immunity Test System	TESEQ AG	NSG 3060 CDN3061 INA	EMC2072	2019-01-11	2020-01-10
Oscilloscope	Tektronix	TDS3052C	EMC2055	2019-01-11	2020-01-10
Test Software WIN 3000	TESEQ AG	Ver 1.3.2	GZE100-68	N/A	N/A

Voltage Dips and Interruptions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMC Immunity Test System	TESEQ AG	NSG 3060 CDN3061 INA	EMC2072	2019-01-11	2020-01-10
Oscilloscope	Tektronix	TDS3052C	EMC2055	2019-01-11	2020-01-10
Test Software WIN 3000	TESEQ AG	Ver 1.3.2	GZE100-68	N/A	N/A



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Conducted Immunity at Power Port (150kHz-230MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Test System Of CI	TESEQ AG	NSG 4070B-80	EMC2115	2019-07-04	2020-07-04
Test Software NSG4070_Ctrl1	TESEQ AG	Ver.1.3.0.1	GZE100-72	N/A	N/A
CDN S502A	TESEQ AG	CDN S502A	EMC2113	2019-07-13	2021-07-12
CDN ST08A	TESEQ AG	CDN ST08A	EMC2112	2019-07-13	2021-07-12
CDN USB3.0	TESEQ AG	CDN USB3.0	EMC2114	2019-07-13	2021-07-12
Dual Directional coupler	Werlatone Inc.	C1795	EMC1105	2019-06-11	2020-06-10
Oscilloscope	Tektronix	TDS3052C	EMC2055	2019-01-11	2020-01-10
CDN	Elektronik-Feinmechanik	L-801:M2/M3	EMC2048	2018-08-13	2020-08-13
CDN M2	Schaffner Chase	CDN-M2-16	EMC1107	2017-10-26	2020-10-25
Current Probe	Schaffner Chase	CIP9136	EMC1116	2017-10-26	2020-10-25
Current Probe	Schaffner Chase	CSP8445	EMC1117	2017-10-26	2020-10-25

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2019-07-16	2020-07-15
DMM	Fluke	73	EMC0007	2019-07-16	2020-07-15



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6 Emission Test Results

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

Test Requirement:	EN 55014-1:2017
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

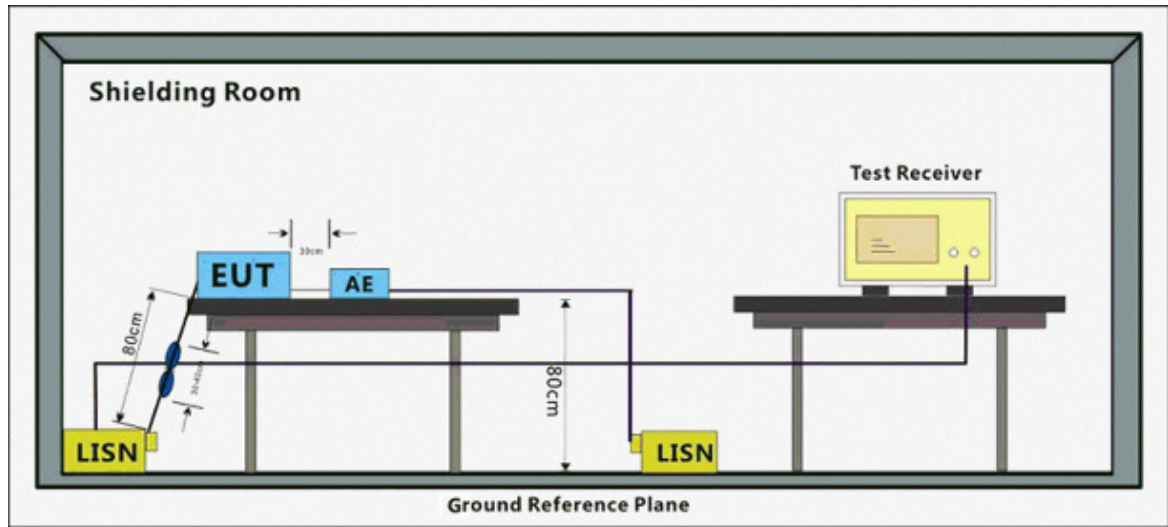
Operating Environment:

Temperature: 23 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

Pre test these modes to find the worst case:
 a: Test the EUT in washing mode, with motor running and heating.
 b: Test the EUT in spinning mode.

The worst case for final test:
 a: Test the EUT in washing mode, with motor running and heating.

6.1.2 Test Setup Diagram



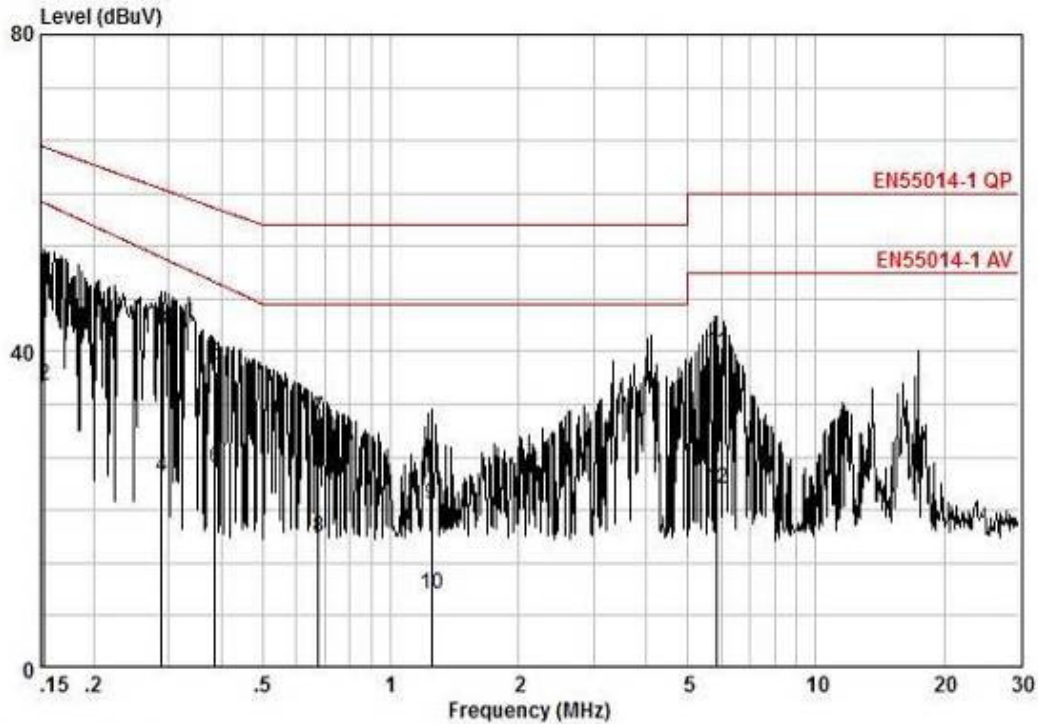
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6.1.3 Measurement Data

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.

Measured Level = Read level + Cable Loss + LISN Factor

Mode:a; Line:Live Line

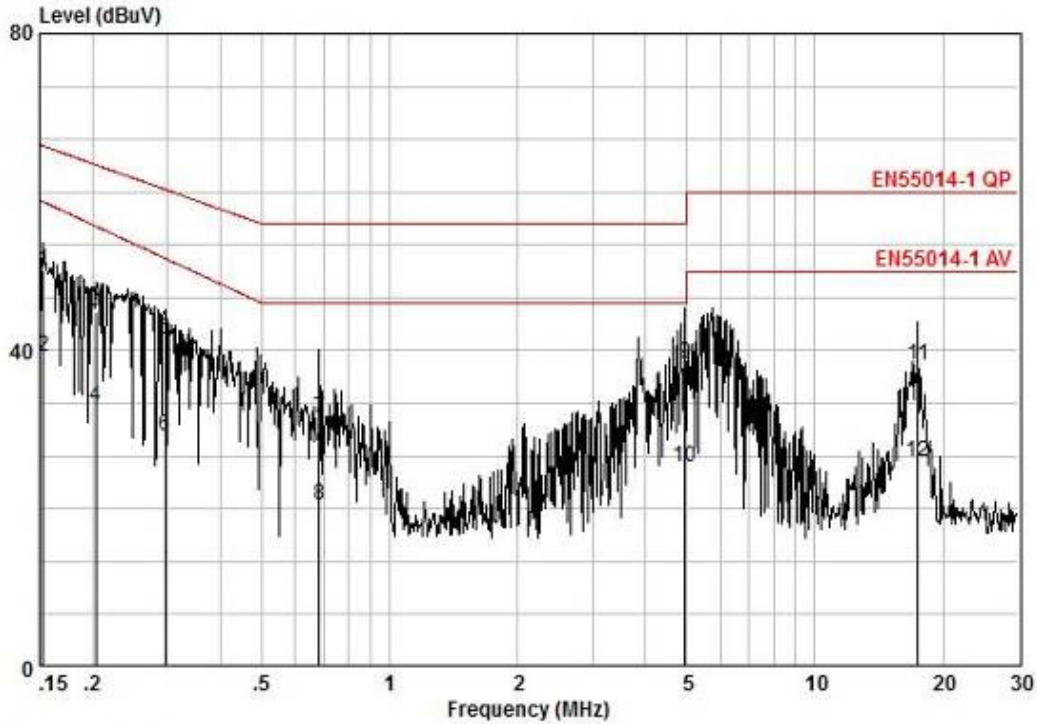


Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.15	38.11	0.10	9.67	47.88	65.82	-17.95	QP
0.15	25.93	0.10	9.67	35.70	58.77	-23.07	AVERAGE
0.29	33.00	0.10	9.67	42.77	60.54	-17.77	QP
0.29	14.35	0.10	9.67	24.12	51.91	-27.79	AVERAGE
0.39	28.60	0.10	9.66	38.36	58.12	-19.76	QP
0.39	15.63	0.10	9.66	25.39	48.76	-23.37	AVERAGE
0.68	21.82	0.10	9.67	31.59	56.00	-24.41	QP
0.68	6.83	0.10	9.67	16.60	46.00	-29.40	AVERAGE
1.25	10.86	0.10	9.68	20.64	56.00	-35.36	QP
1.25	-0.30	0.10	9.68	9.48	46.00	-36.52	AVERAGE
5.87	29.91	0.20	9.73	39.84	60.00	-20.16	QP
5.87	12.84	0.20	9.73	22.77	50.00	-27.23	AVERAGE



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Mode:a; Line:Neutral Line



Pol : NEUTRAL
 No :
 Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.15	40.49	0.10	9.58	50.17	65.82	-15.65	QP
0.15	29.53	0.10	9.58	39.21	58.77	-19.56	AVERAGE
0.20	35.18	0.10	9.60	44.88	63.45	-18.57	QP
0.20	23.16	0.10	9.60	32.86	55.68	-22.82	AVERAGE
0.30	31.83	0.10	9.59	41.52	60.37	-18.85	QP
0.30	19.42	0.10	9.59	29.11	51.68	-22.57	AVERAGE
0.68	21.66	0.10	9.60	31.36	56.00	-24.64	QP
0.68	10.76	0.10	9.60	20.46	46.00	-25.54	AVERAGE
4.95	28.59	0.20	9.65	38.44	56.00	-17.56	QP
4.95	15.51	0.20	9.65	25.36	46.00	-20.64	AVERAGE
17.47	27.91	0.40	9.89	38.20	60.00	-21.80	QP
17.47	15.60	0.40	9.89	25.89	50.00	-24.11	AVERAGE



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6.2 Discontinuous Disturbance (150kHz-30MHz)

Test Requirement: EN 55014-1:2017

Test Method: EN 55014-1:2017

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: 24.5 °C Humidity: 54.6 % RH Atmospheric Pressure: 1020 mbar

Pre test these modes to find the worst case:

- a: Test the EUT in washing mode, with motor running and heating.
- b: Test the EUT in spinning mode.

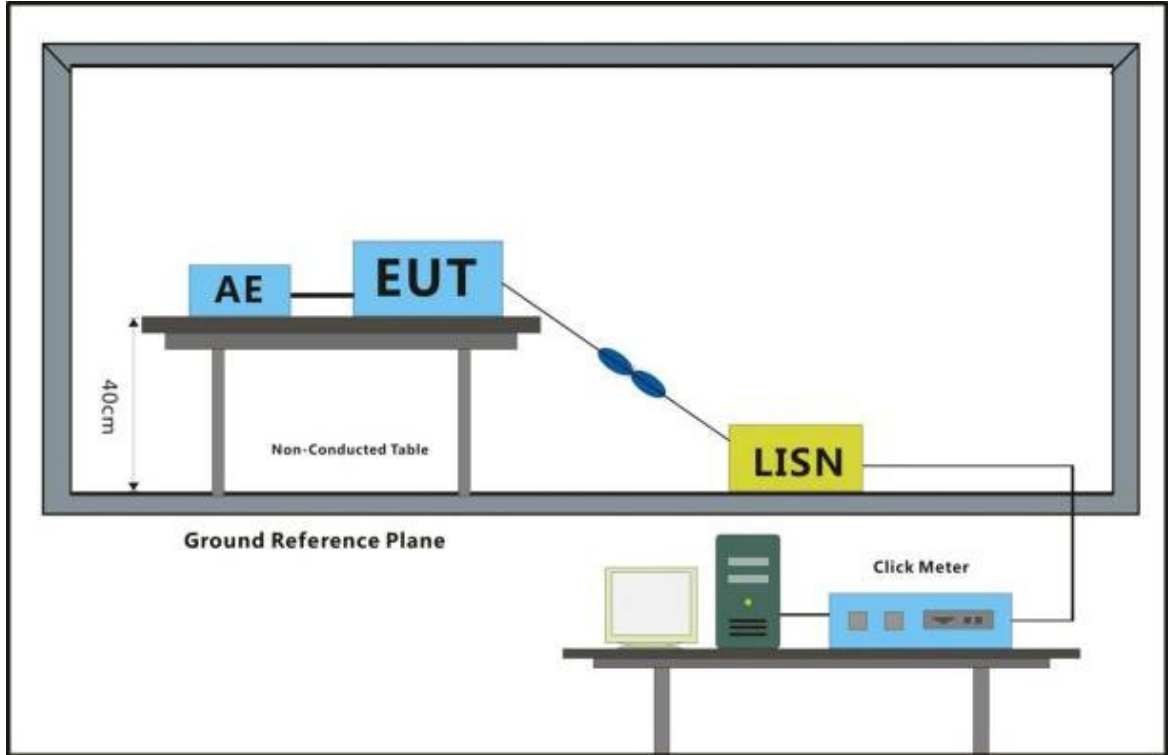
The worst case for final test:

- a: Test the EUT in washing mode, with motor running and heating.



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6.2.2 Test Setup Diagram



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6.2.3 Measurement Data

Mode:a

The screenshot shows a 'Test Report' window with the following details:

- File:** Title, Date, Test# (1), Time (120:02.303), Required, Executed by, Description, Model, SN, Type, Report.
- Work Dir:** c:\Data\Default\Test1439\1
- Sw Op:** 1.00, Click Rate
- Rx Parameters:**
 - Rx1 150kHz: Instantaneous switchings: Exempt from amplitude limits
 - Rx2 500kHz: Instantaneous switchings: Exempt from amplitude limits
 - Rx3 1.4MHz: Instantaneous switchings: Exempt from amplitude limits
 - Rx4 30MHz: No Clicks
- Test Conditions:** Remote (NONE), Input Offset (0.0), External Attenuator (0 dB), Att. Rx1 (20dB), Att. Rx2 (10dB), Att. Rx3 (10dB), Att. Rx4 (10dB).
- First Pass Results:**

	Rx1 150kHz	Rx2 500kHz	Rx3 1.4MHz	Rx4 30MHz
CISPR Short	14	12	9	0
CISPR Long	0	0	0	0
Fast Long	0	0	0	0
Total Clicks	14	12	9	0
Continuous Int. Events	0	0	0	0
Correction TIME (s)	0.00	0.00	0.00	0.00
Manual Switch Op	0	0	0	0
2 Click	0	0	0	0
Limit dBuV	66.0	56.0	56.0	60.0
7.4.2.2 N	0.12	0.10	0.10	0.10
Limit dBuV	66.0	56.0	56.0	60.0
Allowed Clicks	0	0	0	0
- Second Pass Results:**

	Rx1 150kHz	Rx2 500kHz	Rx3 1.4MHz	Rx4 30MHz
Short	0	0	0	0
Long	0	0	0	0
Total Clicks	0	0	0	0
Continuous Int. Events	0	0	0	0
TIME (s)	0.00	0.00	0.00	0.00
2 Click	0	0	0	0
- Peak Clipping:** Indicators for Rx1, Rx2, Rx3, Rx4.
- Status:** PASS (checked)



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6.3 Disturbance Power

Test Requirement:	EN 55014-1:2017
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
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to 300MHz

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

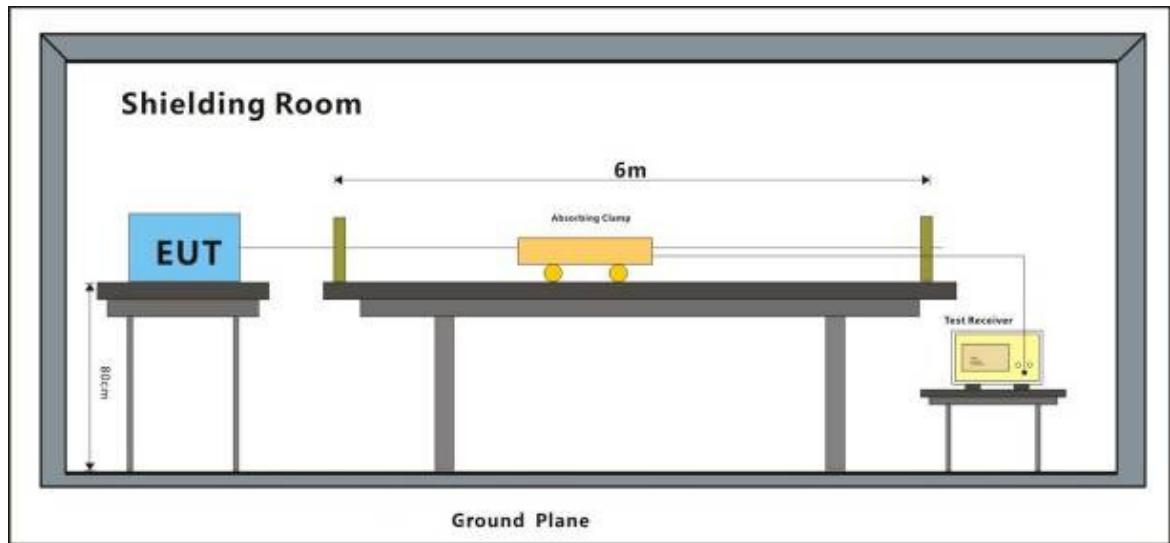
Pre test these modes to find the worst case:

- a: Test the EUT in washing mode, with motor running and heating.
- b: Test the EUT in spinning mode.

The worst case for final test:

- a: Test the EUT in washing mode, with motor running and heating.

6.3.2 Test Setup Diagram



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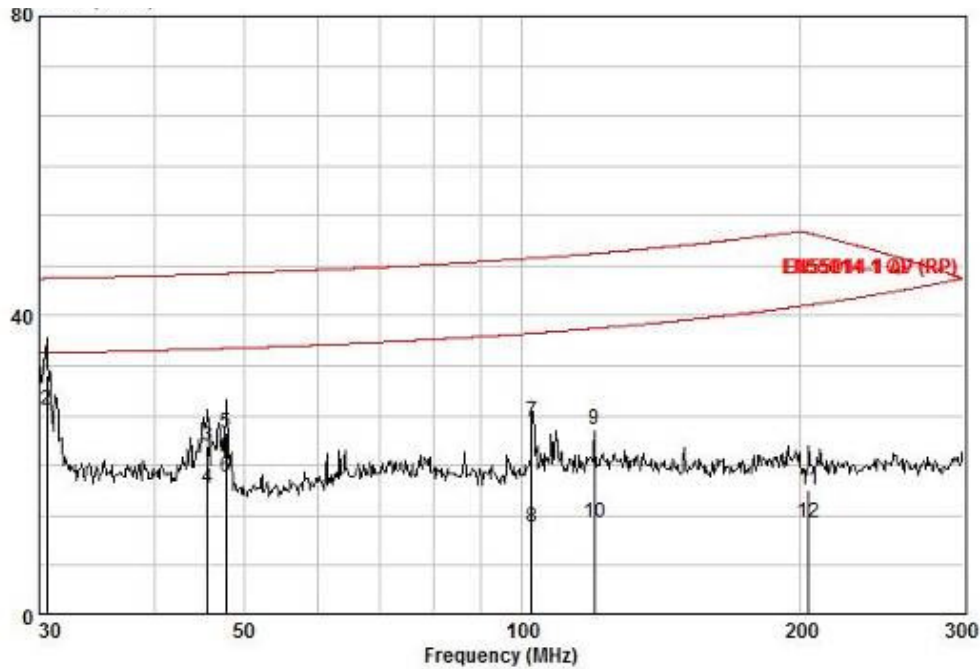
6.3.3 Measurement Data

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.

Measured Level = Read level + Cable Loss + Clamp Factor

Mode:a

Level (dBpW)



Frequency MHz	Read level dBuV	Cable Loss dB	Clamp Factor dEpW/dBuV	Measured level dEpW	Limit Line dEpW	Over limit dB	Remark
30.558	28.10	0.70	3.34	32.14	45.02	-12.88	QP
30.558	23.39	0.70	3.34	27.43	35.02	-7.59	AVERAGE
45.616	20.43	0.81	1.48	22.73	45.38	-22.65	QP
45.616	14.72	0.81	1.48	17.02	35.58	-18.56	AVERAGE
47.766	22.49	0.86	1.09	24.44	45.66	-21.22	QP
47.766	16.58	0.86	1.09	18.53	35.66	-17.13	AVERAGE
102.358	21.43	1.21	3.34	25.98	47.68	-21.70	QP
102.358	7.20	1.21	3.34	11.75	37.68	-25.93	AVERAGE
119.708	19.38	1.30	4.09	24.78	48.32	-23.55	QP
119.708	7.11	1.30	4.09	12.51	38.32	-25.82	AVERAGE
204.231	10.62	1.83	4.45	16.89	51.03	-34.14	QP
204.231	6.12	1.83	4.45	12.39	41.45	-29.06	AVERAGE



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6.4 Harmonic Current Emission

Test Requirement: EN 61000-3-2:2014

Test Method: EN 61000-3-2:2014

Frequency Range: 100Hz to 2kHz

6.4.1 E.U.T. Operation

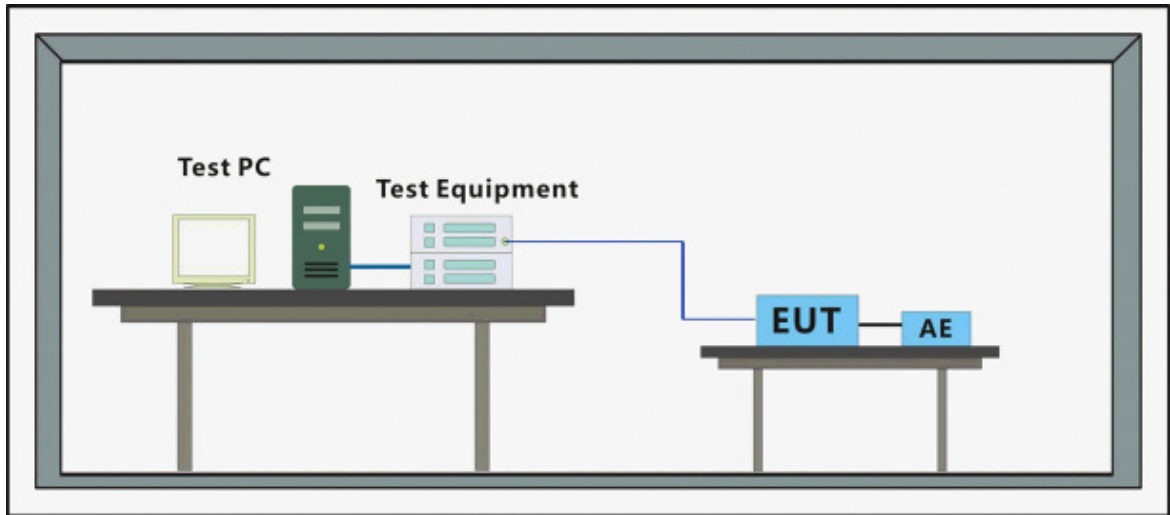
Operating Environment:

Temperature: 24.5 °C Humidity: 54.6 % RH Atmospheric Pressure: 1020 mbar

Pre test these modes to find the worst case:
 a: Test the EUT in washing mode, with motor running and heating.
 b: Test the EUT in spinning mode.

The worst case for final test:
 a: Test the EUT in washing mode, with motor running and heating.

6.4.2 Test Setup Diagram



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6.4.3 Measurement Data

Mode:b

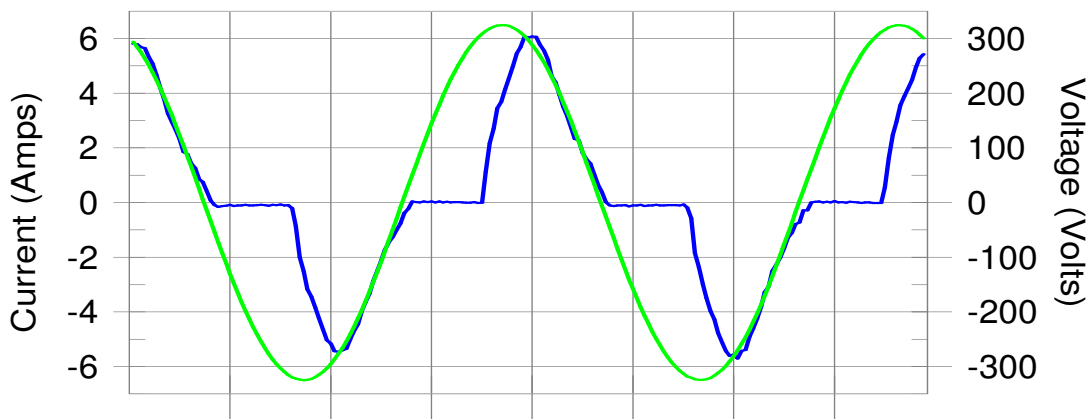
Harmonics – Class-A per Ed. Ed. 5.0 (2018)(Run time)

Test category: Class-A per Ed. 5.0 (2018) (European limits) Test Margin: 100

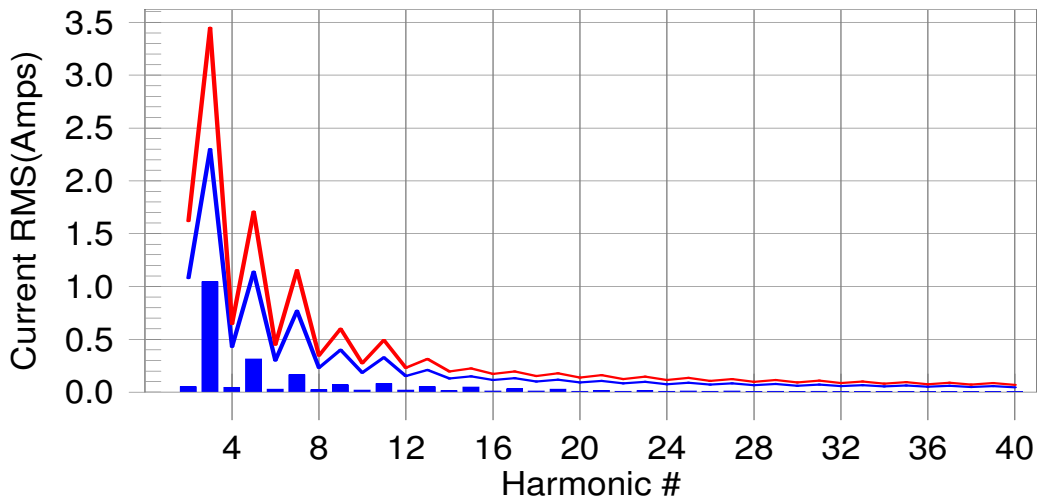
Test duration (min): 2.5

Test Result: Pass Source qualification: Normal

Current & voltage waveforms



Harmonics and Class A limit line European Limits



Test result: Pass Worst harmonics H3-35.0% of 150% limit, H3-45.5% of 100% limit



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SGS-CSTC Standards Technical Services Co., Ltd.

Guangzhou Branch

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Current Test Result Summary (Run time)

Test category: Class-A per Ed. 5.0 (2018) (European limits) Test Margin: 100
Test duration (min): 2.5

Test Result: Pass Source qualification: Normal
THC(A): 1.116 I-THD(%): 46.8 POHC(A): 0.032 POHC Limit(A): 0.251

Highest parameter values during test:

V_RMS (Volts): 229.93 Frequency(Hz): 50.00
I_Peak (Amps): 6.144 I_RMS (Amps): 2.934
I_Fund (Amps): 2.386 Crest Factor: 2.606
Power (Watts): 424.8 Power Factor: 0.751

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.052	1.080	4.8	0.084	1.620	5.2	Pass
3	1.045	2.300	45.5	1.208	3.450	35.0	Pass
4	0.045	0.430	10.5	0.065	0.645	10.0	Pass
5	0.315	1.140	27.6	0.378	1.710	22.1	Pass
6	0.030	0.300	9.9	0.038	0.450	8.4	Pass
7	0.163	0.770	21.2	0.169	1.155	14.6	Pass
8	0.023	0.230	10.1	0.028	0.345	8.0	Pass
9	0.070	0.400	17.6	0.102	0.600	16.9	Pass
10	0.022	0.184	11.8	0.026	0.276	9.3	Pass
11	0.082	0.330	24.8	0.085	0.495	17.2	Pass
12	0.020	0.153	13.0	0.024	0.230	10.5	Pass
13	0.053	0.210	25.2	0.065	0.315	20.7	Pass
14	0.016	0.131	12.5	0.021	0.197	10.9	Pass
15	0.050	0.150	33.4	0.053	0.225	23.6	Pass
16	0.013	0.115	11.3	0.019	0.173	10.8	Pass
17	0.031	0.132	23.7	0.035	0.198	17.6	Pass
18	0.011	0.102	N/A	0.017	0.153	N/A	Pass
19	0.028	0.118	24.0	0.031	0.178	17.3	Pass
20	0.010	0.092	N/A	0.014	0.138	N/A	Pass
21	0.017	0.107	16.0	0.022	0.161	13.5	Pass
22	0.009	0.084	N/A	0.011	0.125	N/A	Pass
23	0.016	0.098	16.7	0.018	0.147	12.2	Pass
24	0.008	0.077	N/A	0.010	0.115	N/A	Pass
25	0.011	0.090	N/A	0.014	0.135	N/A	Pass
26	0.008	0.071	N/A	0.009	0.107	N/A	Pass
27	0.011	0.083	N/A	0.013	0.125	N/A	Pass
28	0.007	0.066	N/A	0.008	0.099	N/A	Pass
29	0.008	0.078	N/A	0.010	0.116	N/A	Pass
30	0.006	0.061	N/A	0.007	0.092	N/A	Pass
31	0.008	0.073	N/A	0.009	0.109	N/A	Pass
32	0.005	0.058	N/A	0.006	0.086	N/A	Pass
33	0.005	0.068	N/A	0.007	0.102	N/A	Pass
34	0.004	0.054	N/A	0.005	0.081	N/A	Pass
35	0.006	0.064	N/A	0.007	0.096	N/A	Pass
36	0.004	0.051	N/A	0.005	0.077	N/A	Pass
37	0.003	0.061	N/A	0.005	0.091	N/A	Pass
38	0.004	0.048	N/A	0.005	0.073	N/A	Pass
39	0.004	0.058	N/A	0.005	0.087	N/A	Pass
40	0.004	0.046	N/A	0.007	0.069	N/A	Pass



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6.5 Voltage Fluctuations and Flicker

Test Requirement: EN 61000-3-3:2013
 Test Method: EN 61000-3-3:2013

6.5.1 E.U.T. Operation

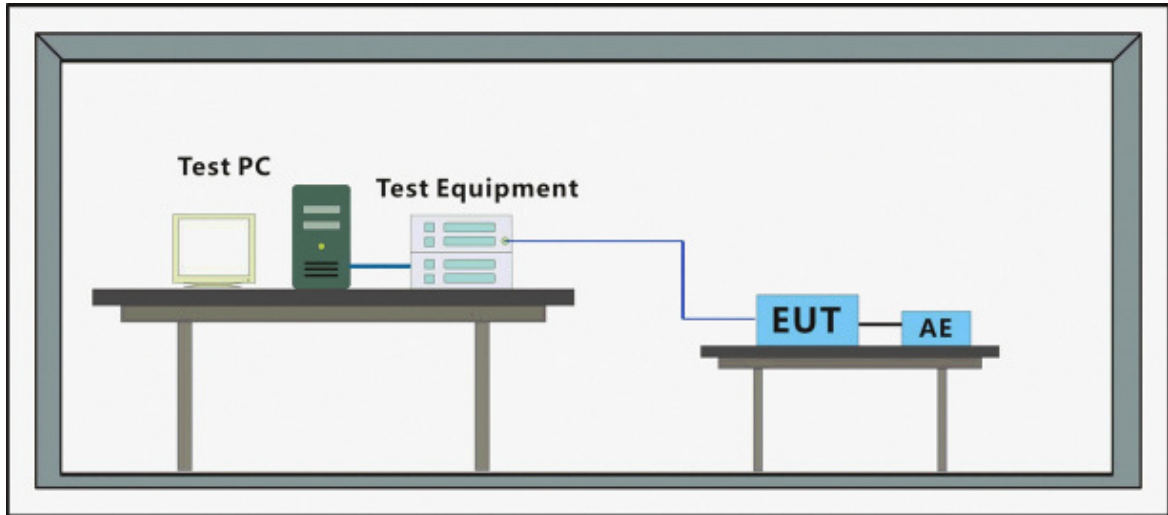
Operating Environment:

Temperature: 24.5 °C Humidity: 54.6 % RH Atmospheric Pressure: 1020 mbar

Pre test these modes to find the worst case:
 a: Test the EUT in washing mode, with motor running and heating.
 b: Test the EUT in spinning mode.

The worst case for final test:
 a: Test the EUT in washing mode, with motor running and heating.

6.5.2 Test Setup Diagram



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6.5.3 Measurement Data

Mode:a

Flicker Test Summary per EN/IEC61000-3-3 Ed. 3.0 (2013) (Run time)

Test category: All parameters (European limits)

Test Margin: 100

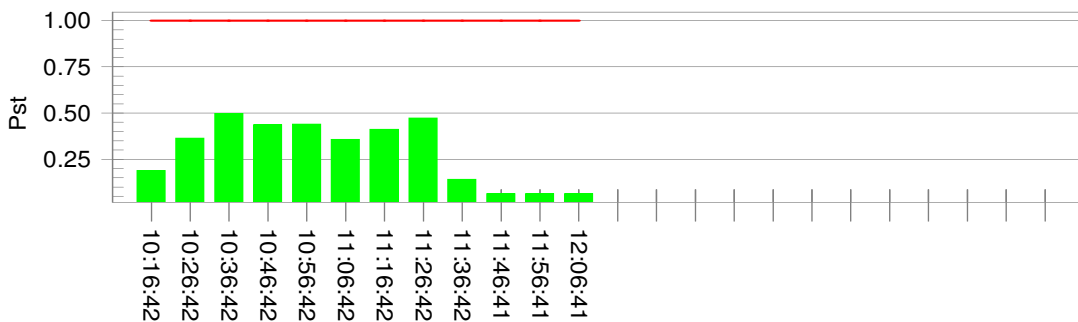
Test duration (min): 120

Test Result: Pass

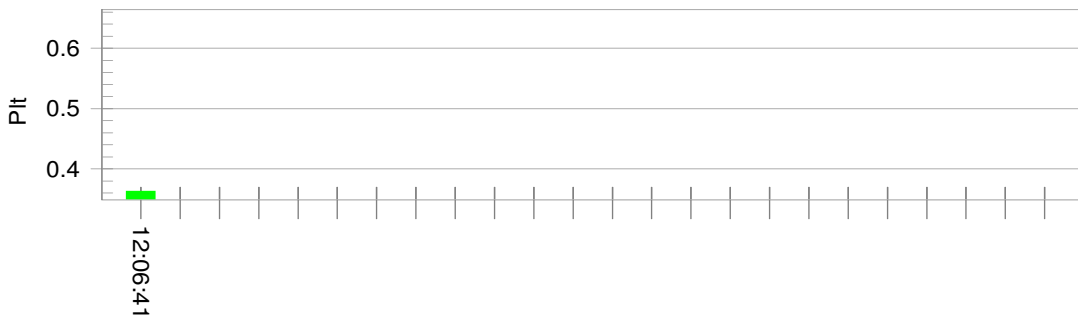
Status: Test Completed

Pstj and limit line

European Limits



Plt and limit line



Parameter values recorded during the test:

Vrms at the end of test (Volt):	229.88			
T-max (mS):	0	Test limit (mS):	500.0	Pass
Highest dc (%):	1.42	Test limit (%):	3.30	Pass
Highest dmax (%):	1.48	Test limit (%):	4.00	Pass
Highest Pst (10 min. period):	0.497	Test limit:	1.000	Pass
Highest Plt (2 hr. period):	0.363	Test limit:	0.650	Pass



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7 Immunity Test Results

7.1 Performance Criteria Description in EN 55014-2:2015

- 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. 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 55014-2:2015
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 E.U.T. Operation

Operating Environment:

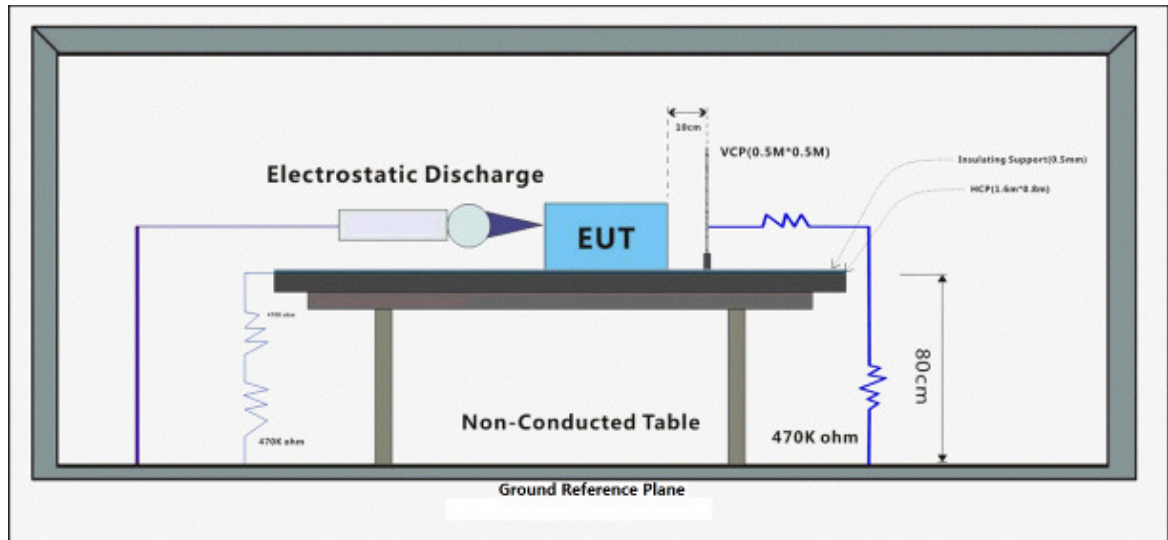
Temperature: 24.5 °C Humidity: 54.6 % RH Atmospheric Pressure: 1020 mbar

Test Mode: a: Test the EUT in washing mode, with motor running and heating.

b: Test the EUT in spinning mode.

c: Test the EUT in idle mode.

7.2.2 Test Setup Diagram



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7.2.3 Test Results

Test Point:

Observations:

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	A
Contact Discharge	4	-	2	A
Horizontal Coupling	4	+	3	N/A
Horizontal Coupling	4	-	3	N/A
Vertical Coupling	4	+	3	A
Vertical Coupling	4	-	3	A

Results:

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



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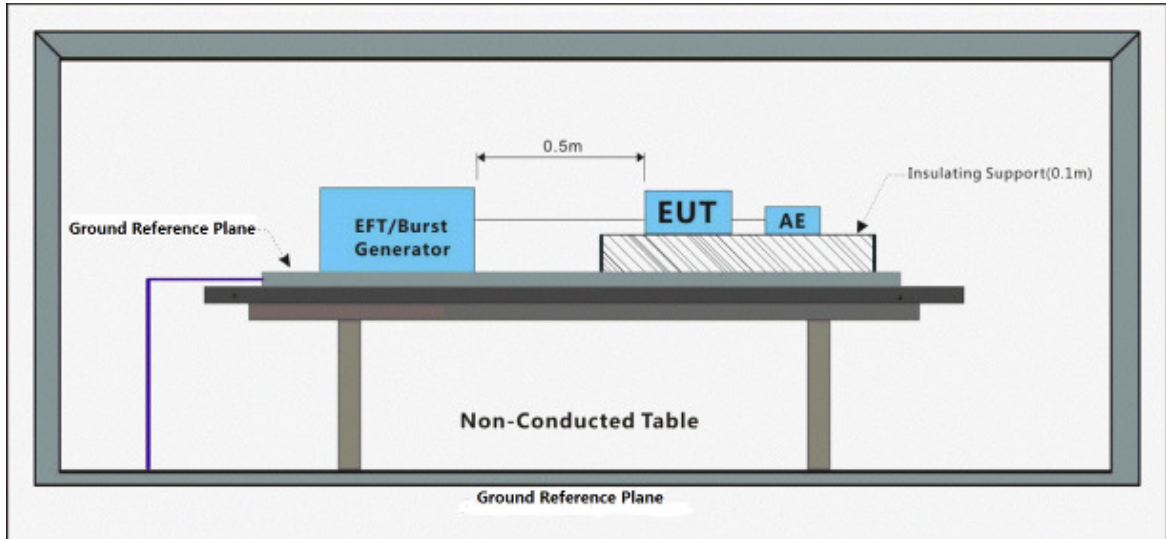
7.3 Electrical Fast Transients/Burst at Power Port

Test Requirement: EN 55014-2:2015
 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 E.U.T. Operation

Operating Environment:
 Temperature: 23.3 °C Humidity: 63.5 % RH Atmospheric Pressure: 1020 mbar
 Test Mode:
 a: Test the EUT in washing mode, with motor running and heating.
 b: Test the EUT in spinning mode.
 c: Test the EUT in idle mode.

7.3.2 Test Setup Diagram



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.



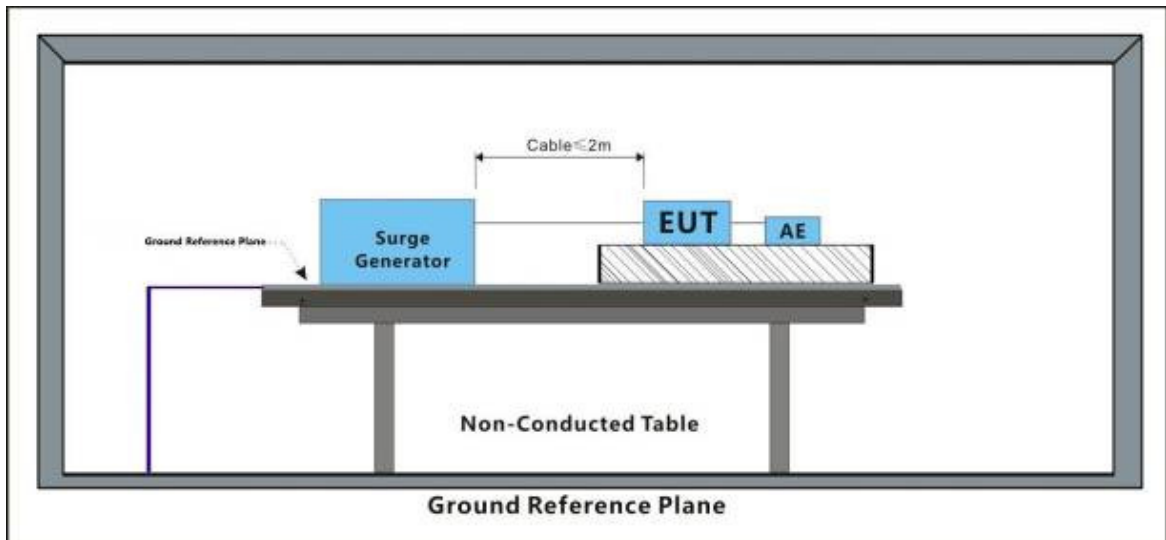
7.4 Surge at Power Port

Test Requirement: EN 55014-2:2015
 Test Method: EN 61000-4-5:2014
 Performance Criterion: B
 Interval: 60s between each surge
 No. of surges: 5 positive at 90°, 5 negative at 270°.

7.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.3 °C Humidity: 64.1 % RH Atmospheric Pressure: 1020 mbar
 Test Mode:
 a: Test the EUT in washing mode, with motor running and heating.
 b: Test the EUT in spinning mode.
 c: Test the EUT in idle mode.

7.4.2 Test Setup Diagram



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.



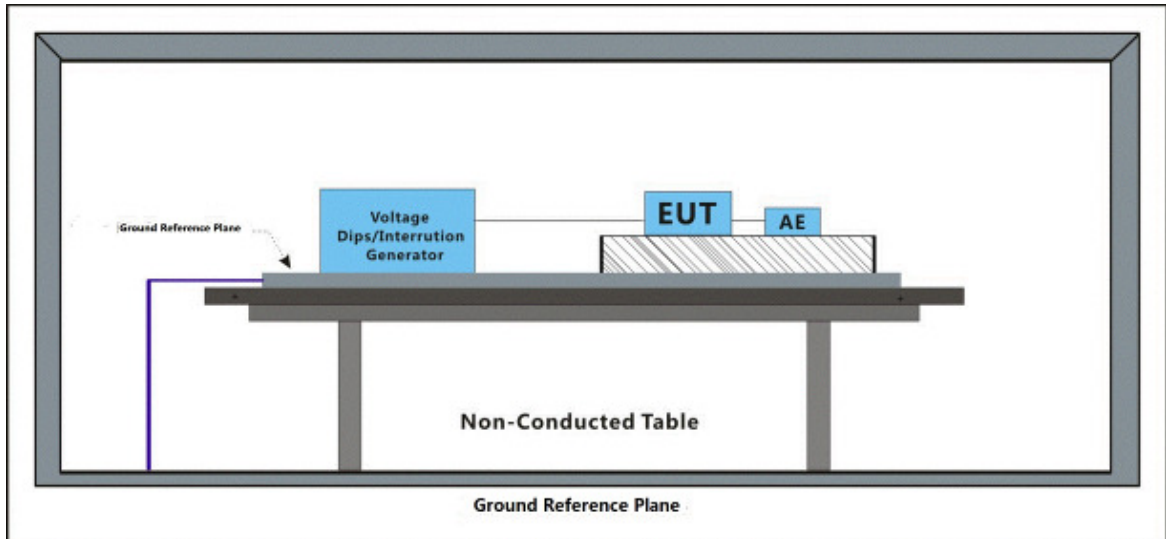
7.5 Voltage Dips and Interruptions

Test Requirement: EN 55014-2:2015
 Test Method: EN 61000-4-11:2004
 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 E.U.T. Operation

Operating Environment:
 Temperature: 23.3 °C Humidity: 64.1 % RH Atmospheric Pressure: 1020 mbar
 Test Mode:
 a: Test the EUT in washing mode, with motor running and heating.
 b: Test the EUT in spinning mode.
 c: Test the EUT in idle mode.

7.5.2 Test Setup Diagram



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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
40	0°	12 Cycles	3	A
40	180°	12 Cycles	3	A
70	0°	30 Cycles	3	A
70	180°	30 Cycles	3	A

Results:

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



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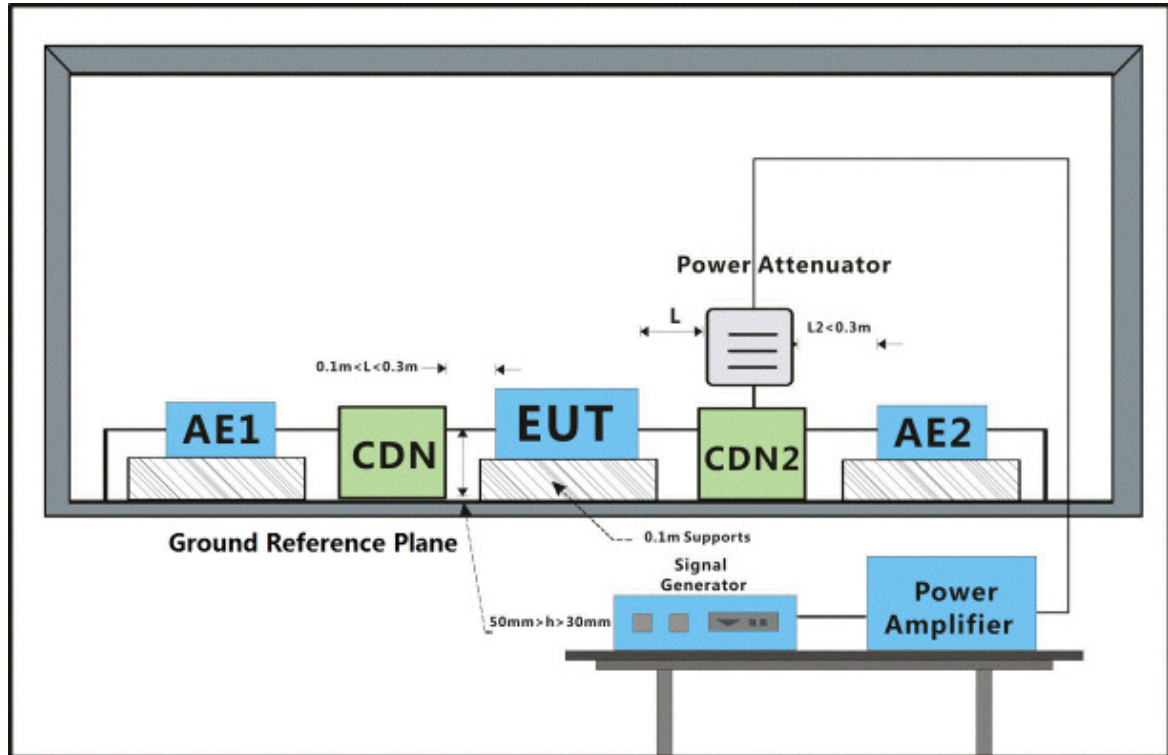
7.6 Conducted Immunity at Power Port (150kHz-230MHz)

Test Requirement: EN 55014-2:2015
 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 E.U.T. Operation

Operating Environment:
 Temperature: 23.3 °C Humidity: 63.3 % RH Atmospheric Pressure: 1020 mbar
 Test Mode: a: Test the EUT in washing mode, with motor running and heating.
 b: Test the EUT in spinning mode.
 c: Test the EUT in idle mode.

7.6.2 Test Setup Diagram



7.6.3 Test Results

Cable port	Level (Vrms)	CDN/Clamp	Dwell time	Result / Observations
AC power port	3	CDN	2s	A

Results:

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



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 Current Emission Test Setup



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8.5 Voltage Fluctuations and Flicker Test Setup



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8.6 Electrostatic Discharge Test Setup



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8.7 Electrical Fast Transients/Burst at Power Port Test Setup



8.8 Surge at Power Port Test Setup



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8.9 Voltage Dips and Interruptions Test Setup



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



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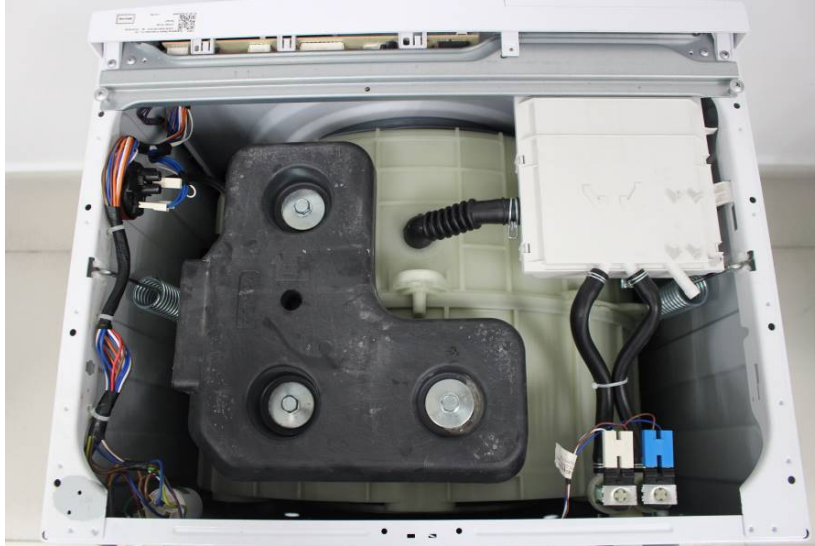
8.11 EUT Constructional Details



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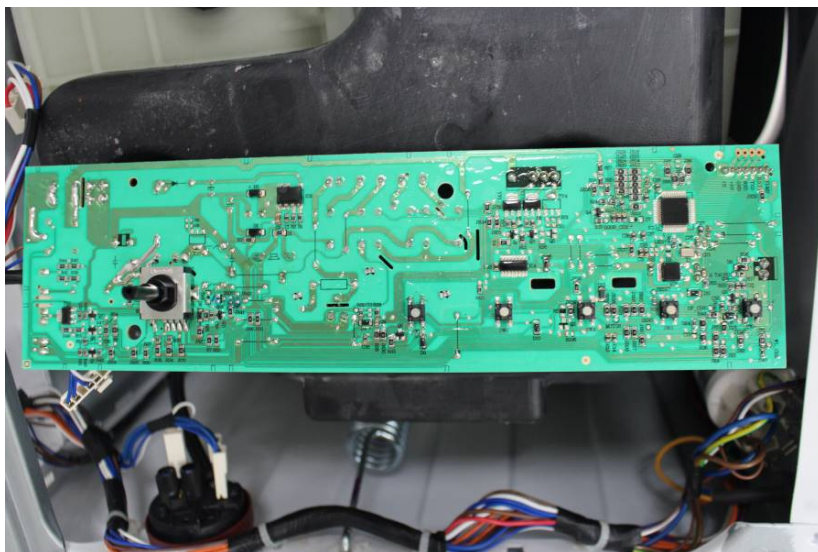


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--End of Report--



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