EUROFINS PRODUCT TESTING SERVICE (SHANGHAI) CO., LTD.

EMC TEST- REPORT

TEST REPORT NUMBER: EFSH16051239-IE-05-E01

eurofins
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2 General Information

2.1 Notes

The results of this test report relate exclusively to the item tested as specified in chapter "Description of test item" and are not transferable to any other test items.
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Operator:

Date	Eurofins-Lab.	Name / Title	Signature
2016-05-27		Perry Li / Testing Engineer	

Technical responsibility for area of testing:

Date	Eurofins	Name / Title	Signature
2016-05-27		Stefan Zhao / Project Engineer	

2.2 Testing laboratory

Eurofins Testing Technology (Shenzhen) Co., Ltd.
3A, F1.6, Tianfa Building, Tian'an Cyber Park, Futian District, Shenzhen City, GD, PRC 518040
Telephone : +86-755-83585700
Fax : +86-755-83585701

Test location, where different:

Subcontractor	
Name	: Shenzhen SEM.Test Technology Co., Ltd.
Address	: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian'er Road, Block 70, Bao'an District, Shenzhen, Guangdong, China
Telephone	: +86-755-3366 3308
Fax	: +86-755-3366 3309

All items were prepared and tested at Shenzhen SEM.Test Technology Co., Ltd.

2.3 Details of approval holder

Name :
Address :

Telephone
Fax

2.4 Application details : ./.

: ./.

Date of receipt of application : 2016- -05-16
Date of receipt of test item :2014-03-15
Date of test : 2014-03-15 to 2014-03-27

2.5 EUT information

Product type : Hair Straightener
Model name : JD-106, JD-107A, JD-108, JD-905, JD-906
Brand name : ./.
Serial number : ./.
Ratings : 110-240V~, 50/60Hz, Class II, 35W for all models
Test voltage : 230V~, 50Hz
Additional information :
All models have same construction, only difference in appearance, wattage of PTC.
After review, JD-905 was selected to do all the tests.

2.6 Test standards

Technical standard :

EN 55014-1: 2006+A1: 2009+A2: 2011

EN 55014-2: 1997+A1: 2001+A2: 2008

EN 61000-3-2: 2014

EN 61000-3-3: 2013

3 Technical test

3.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed. ☒

or

The deviations as specified were ascertained in the course of the tests performed. ☐

The test results referred from test report No.EFSN13120867E-E01.
After review, no additional tests need to be done. The result of compliance remains effective.

3.2 Test environment

Temperature	: 20	...	25°C
Relative humidity content	: 30	...	60%
Air pressure	: 100	...	103kPa

3.3 Test equipment utilized

Equipment Name	Manufactory	Model	Serial No.	Cal Due date
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2015-03-27
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2015-03-27
L.I.S.N	SCHWARZBECK	NSLK8126	8126-224	2015-03-27
L.I.S.N	EMCO	3825/2	11967C	/
Clamp	SCHWARZBECK	MDS21	3809	2015-03-27
Spectrum Analyzer	Rohde & Schwarz	FSEA20	DE25181	/
Test Receiver	Rohde & Schwarz	ESVB	825471/005	2015-03-27
Amplifier	Agilent	8447F	3113A06717	2015-03-27
RF Switch	EM	EMSW18	SW060023	/
Positioning Controller	C&C	CC-C-1F	/	/
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2015-02-24
Horn Antenna	SCHWARZBECK	BBHX9120	9120	/
Loop Antenna	SCHWARZBECK	HFRA 5150	9453	/
Triple-Loop Antenna	EVERFINE	LLA-2	711001	2015-03-27
Coaxial Cable	SCHWARZBECK	AK9513	9513-10	/
Spectrum Analyzer	Agilent	E4402B	US41192821	2015-03-27
RF Limiter	Agilent	11867A	MY42241803	/
RMS/PEAK Voltmeter	Rohde & Schwarz	URE3	826135/008	/
INDUSTRIAL CONTROLLER	Rohde & Schwarz	PSP7	826033001	/
Attenuator	ATTEN	ATS100-4-20	/	/
Attenuator	ATTEN	ATS002-4-20	/	/
Attenuator	ATTEN	ATS010-4-30	/	/
ESD Generator	NOISEKEN	ESS-200AX	H467644	/

Transient 2000	EMC Partner	TRA2000	863	2015-03-27
Couple Clamp	EMC Partner	CN-EFT1000	513	2015-03-27
CDN	FRANKONIA	M2+M3	A3011104	/
ESD Generator	TESQ AG	NSG 437	161	2015-03-27
Semi-Anechoic Chamber	SAEMC	966	/	/
Shielding Room	SAEMC	743	/	/
Shielding Room	SAEMC	443(TRIPLE LOOP ROOM)	/	/
Shielding Room	SAEMC	443(CONTROL ROOM)	/	/
Power Divider	Weinschel	1506A	PM204	2015-03-27
Impedance Matching PADS	Weinschel	9070-50/75	/	/
Impedance Matching PADS	Weinschel	9070-50/75	/	/
Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2015-03-27
RF Current Probe	FCC	F-33-4	091684	2015-03-27
Attenuator	ATTEN	ATS010-4-10	/	/
GSM Tester	Rohde & Schwarz	CMU200	112012	2015-03-27
Coaxial Cable	SEM.Test	1M0RFC	AMP-SW	/
Coaxial Cable	SEM.Test	2M0RFC	966-AMP	/
Coaxial Cable	SCHWARZBECK	5M0RFC	CLAMP	/
Coaxial Cable	SEM.Test	2M4RFC	LISN	/
Coaxial Cable	SEM.Test	1M0RFC	SW-ESVB	/
Coaxial Cable	SEM.Test	0M4RFC	SW-FSP	/
EMI Test Software	Shurple	EZ-EMC-RA	SEM-V3A1	/
Horn Antenna	ETS	3117	00086197	2015-02-24
Pre-amplifier	Compliance Direction	PAP-1G18	24002	2015-03-27
Coaxial Cable	Agilent	LL142-07-07-10M	08050035	/

CS Immunity Tester	EMTEST	CWS500	0900-03	2015-03-27
Attenuator	EMTEST	MA-5100/6BF2	1009	2015-03-27
CDN	Luthi	L-801M2/M3	2665	2015-03-27
RF Limiter	ATTEN	AT-BSF-2400~2500	/	/
RF Limiter	ATTEN	AT-BSF-0136~0174	/	/
RF Limiter	ATTEN	AT-BSF-0400~0500	/	/
RF Limiter	ATTEN	AT-BSF-0820~0920	/	/
RF Limiter	ATTEN	AT-BSF-1710~1910	/	/
Coaxial Load	ATTEN	ATF010-2	/	/
Combine Power	ATTEN	ATGF50-2.5-20	11300100205702	/
Signal Generator	HP	8648A	3642U01277	/
Digital Power Analyzer	California Instrument	CTS	72831	/
Power Source	California Instrument	5001IX-CTS-400	60077	2015-03-27
Cell Site Test Set	HP	8921A	3524A02414	2015-03-27
Coaxial Attenuator	ATTEN	ATS002-4-6	/	/

3.4 Test results

☒ 1st test ☐ test after modification ☐ production test

Test item	Sub clause	Required	Test passed	Test failed
Conducted Emission	Clause 4.1.1 of EN 55014-1	☒	☒	☐
Disturbance power	Clause 4.1.2 of EN 55014-1	☒	☒	☐
Radiated disturbance	Clause 4.1.2 of EN 55014-1	☐	☐	☐
Discontinuous disturbance	Clause 4.2 of EN 55014-1	☐	☐	☐
Harmonic Current Emissions	EN 61000-3-2	☐	☐	☐
Voltage Changes, Voltage Fluctuations and Flicker	EN 61000-3-3	☒	☒	☐
Electrostatic Discharge	Clause 5.1 of EN 55014-2 & IEC 61000-4-2	☒	☒	☐
Electrical Fast Transients	Clause 5.2 of EN 55014-2 & IEC 61000-4-4	☒	☒	☐
Injected currents (RF continues conducted)	Clause 5.3 &5.4 of EN 55014-2 & IEC 61000-4-6	☒	☒	☐
Radio frequency electromagnetic fields	Clause 5.5 of EN 55014-2 & IEC 61000-4-3	☐	☐	☐
Surge immunity	Clause 5.6 of EN 55014-2 & IEC 61000-4-5	☒	☒	☐
Voltage dips and Interruption	Clause 5.7 of EN 55014-2 & IEC 61000-4-11	☒	☒	☐

Note 1: The additional margin (0-10dB) was meet in the frequency range 200MHz to 300MHz in Disturbance power test(absorbing clamp), and the EUT did not contained any circuit with clock frequency more than 30MHz, so the EUT was compliant with the Radiated disturbance test (300MHz-1GHz) without test.

Note 2: The Harmonic Current Emissions test was not required as the EUT with a rated power of 75W or less.

Note 3: The click rate was less than 5, and the click duration was less than 10ms. So it is deemed to comply with Discontinuous disturbance test.

Note 4: The Radio frequency electromagnetic fields test was not required as the appliance did not contain clock frequency higher than 15MHz.

4 Emission Test

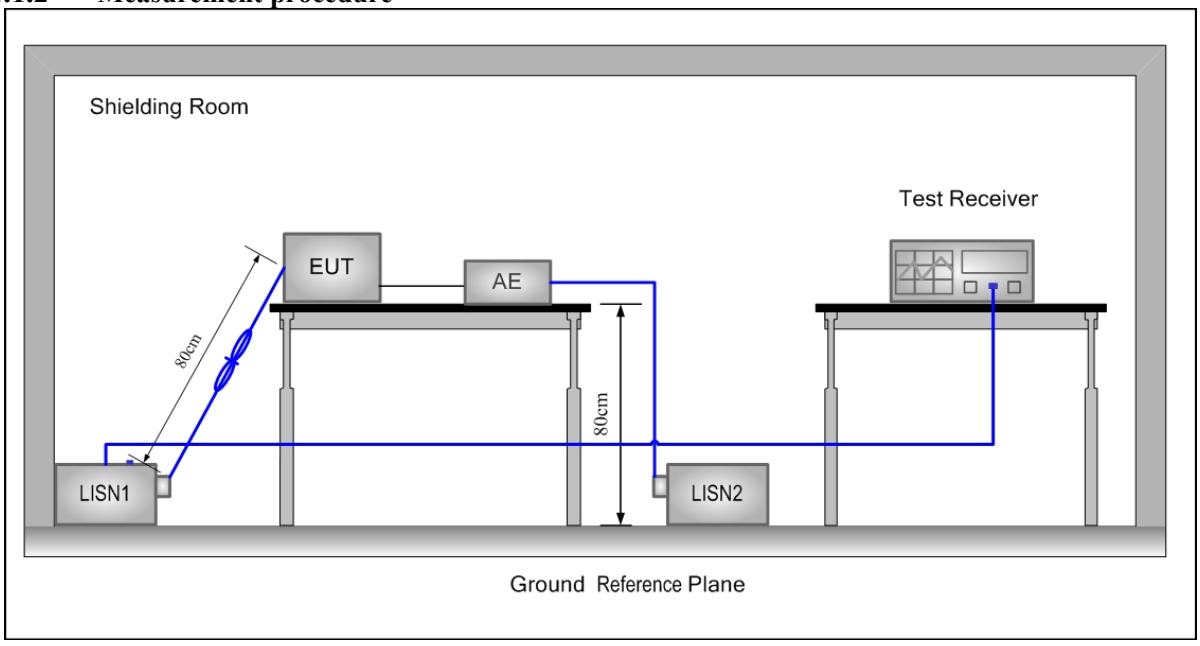
4.1 Conducted Emission

This clause lays down the general requirements for the measurement of disturbance voltage produced at the terminals of apparatus.

4.1.1 Limits

Frequency range MHz	At mains terminals dB (μV)	
	Quasi-peak Limit	Average Limit
0.15 to 0.50	66 to 56	59 to 46
0.50 to 5	56	46
5 to 30	60	50
Note1: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 30 MHz. Note2: The lower limit is applicable at the transition frequency.		

4.1.2 Measurement procedure



1. The mains terminal disturbance voltage was measured with the EUT in a shielded room.
2. The EUT was connected to AC power source through a LISN (Line Impedance Stabilization Network) which provides a (50 μH + 5 Ω) || 50 Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN, which was bonded to the ground reference plane in the same way as the LISN for the unit being measured.
3. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.

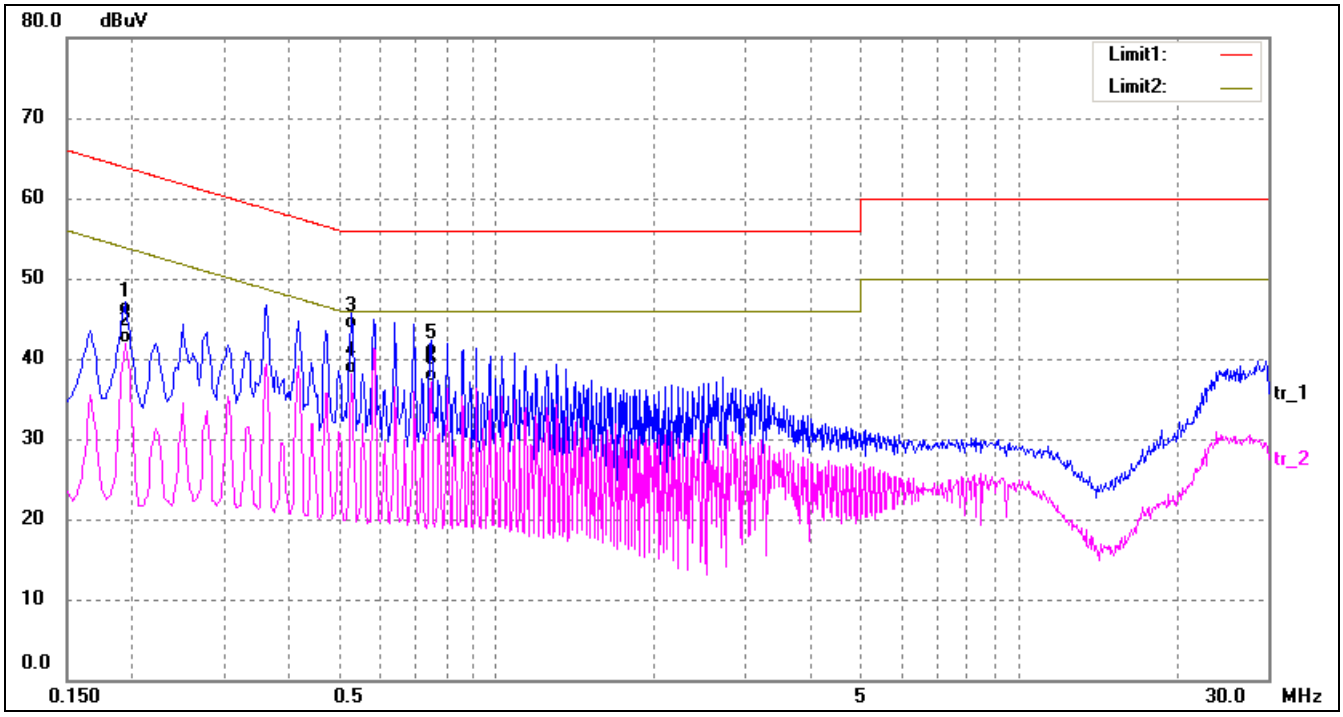
4. Before get the final emission results with quasi-peak(QP) detector and average(AV) detector, a pre-scan was performed with the peak(PK) and average(AV) detector to find out the maximum emission data plots of the EUT.

4.1.3 Measurement uncertainty

Ulab(cond) = 1.8dB at 95% level of confidence, k=2

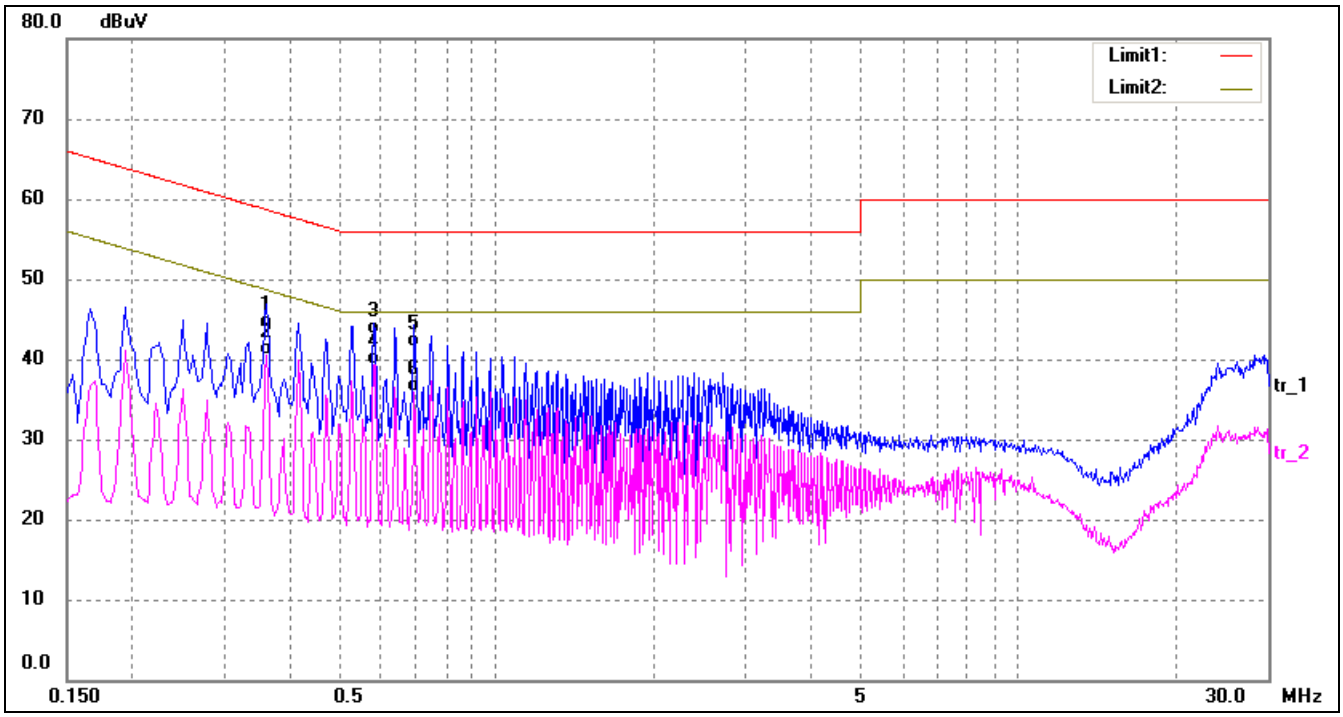
4.1.4 Results -Measurement Data

Live Line Test Data



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Over (dB)	Detector
1	0.1940	35.98	9.50	45.48	63.86	-18.38	QP
2	0.1940	32.48	9.50	41.98	53.86	-11.88	AVG
3	0.5260	34.24	9.53	43.77	56.00	-12.23	QP
4*	0.5260	28.52	9.53	38.05	46.00	-7.95	AVG
5	0.7500	30.53	9.75	40.28	56.00	-15.72	QP
6	0.7500	27.31	9.75	37.06	46.00	-8.94	AVG

Neutral Line Test Data



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Over (dB)	Detector
1	0.3620	34.46	9.50	43.96	58.68	-14.72	QP
2	0.3620	31.09	9.50	40.59	48.68	-8.09	AVG
3	0.5820	33.51	9.58	43.09	56.00	-12.91	QP
4*	0.5820	29.71	9.58	39.29	46.00	-6.71	AVG
5	0.6940	31.90	9.69	41.59	56.00	-14.41	QP
6	0.6940	26.28	9.69	35.97	46.00	-10.03	AVG

4.2 Disturbance power

This clause lays down the general requirements for the measurement of disturbance power produced at the terminals of apparatus.

4.2.1 limits

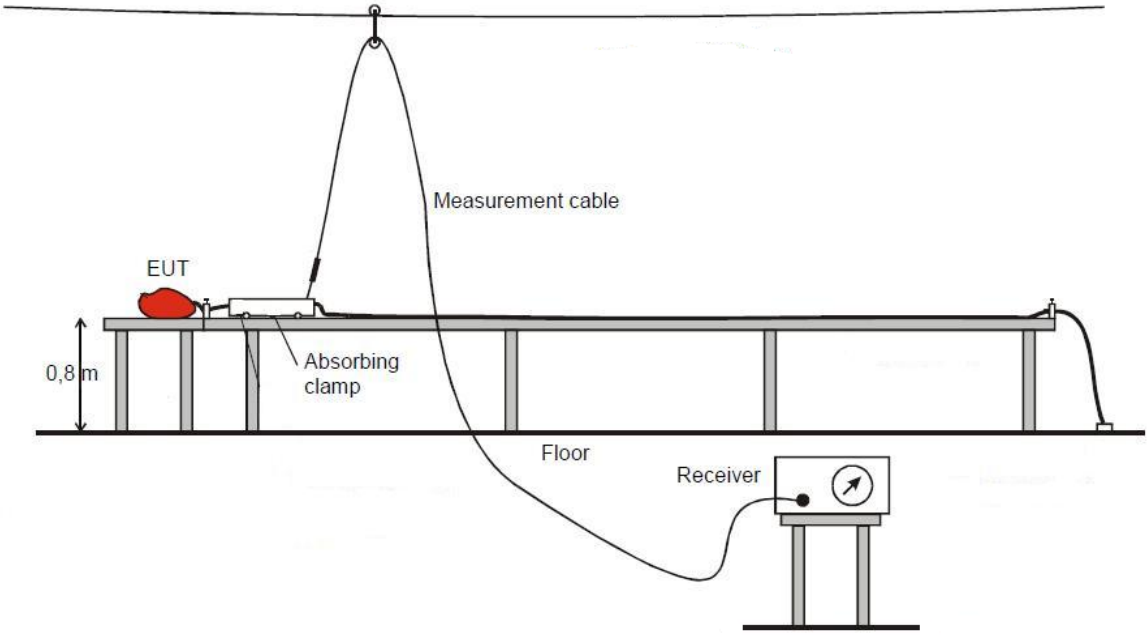
Table 2a-Disturbance power limits for the frequency range 30 MHz to 300 MHz

Frequency range MHz	Limit dB (pW)	
	Quasi-peak	Average
30 to 300	45 to 55	35 to 45
Note: Increasing linearly with the frequency from. If the limit for the measurement with the average detector is met when using a receiver with a quasi-peak detector, the equipment under test shall be deemed to meet both limits and the measurement using the receiver with an average detector need not be carried out.		

Table 2b-Margin when performing disturbance power measurement in the frequency range 30 MHz to 300 MHz

	Household and similar appliances		Tools					
1	2	3	4	5	6	7	8	9
Frequency range			Rated motor power not exceeding 700 W		Rated motor power above 700 W and not exceeding 1 000 W		Rated motor power above 1 000 W	
(MHz)	dB (pW) Quasi-peak	dB (pW) Average	dB (pW) Quasi-peak	dB (pW) Average	dB (pW) Quasi-peak	dB (pW) Average	dB (pW) Quasi-peak	dB (pW) Average
	Increasing linearly with the frequency from:							
200 to 300	0 to 10 dB	-	0 to 10 dB	-	0 to 10 dB	-	0 to 10 dB	-

4.2.2 Measurement procedure

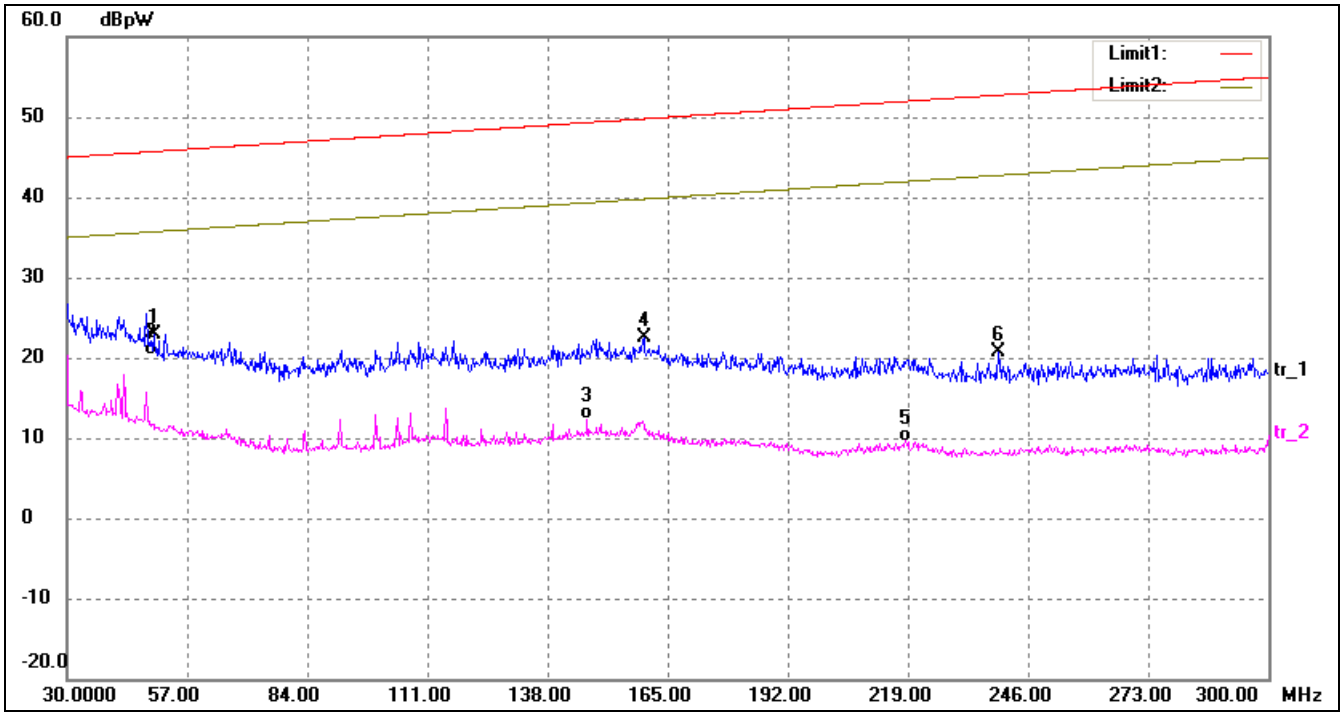


The test configuration corresponds to the standard EN 55014-1. The equipment under test is placed on a non metallic table with 0,8 m high. The lead to be measured is stretched horizontally in a straight line, to permit variation in position of the absorbing clamp along the lead to find the maximum indication. The lead shall be at least length of 6 meter. Before get the final emission results with quasi-peak(QP) detector and average(AV) detector, a pre-scan was performed with the peak(PK) detector to find out the maximum emission data plots of the EUT. The absorbing clamp is placed around the lead.

4.2.3 Measurement uncertainty

$U_{lab(cond)}$ = 3.35 dB at confidence of 95%, k=2

4.2.4 Results



No.	Frequency (MHz)	Reading (dBpW)	Correct (dB/m)	Result (dBpW)	Limit (dBpW)	Over (dB)	Detector
1	49.6400	4.38	18.44	22.82	45.73	-22.91	QP
2*	49.6400	1.78	18.44	20.22	35.73	-15.51	AVG
3	147.0400	-5.18	17.42	12.24	39.33	-27.09	AVG
4	159.6000	5.09	17.41	22.50	49.80	-27.30	QP
5	218.5600	-6.70	16.30	9.60	41.98	-32.38	AVG
6	239.4800	5.09	15.59	20.68	52.76	-32.08	QP

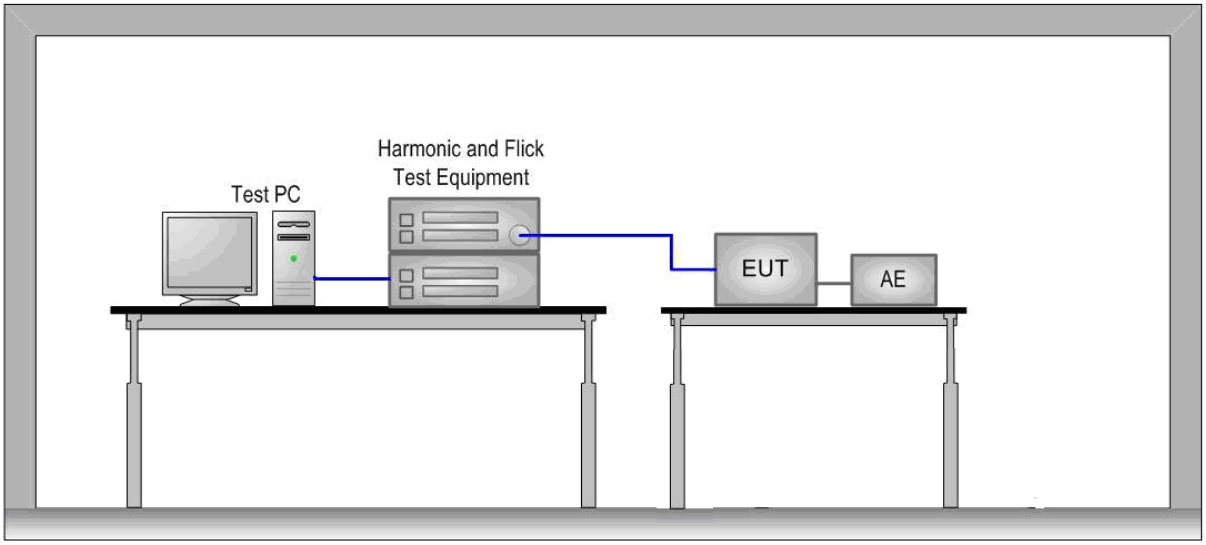
4.3 Voltage Changes, Voltage Fluctuations and Flicker

This part is concerned with the limitation of voltage fluctuations and flicker impressed on the public low-voltage system.

4.3.1 Limits

Value	Limit
Pst	1,0
Plt	0,65
dt	3,3%
dc	3,3%
dmax	4,0%

4.3.2 Measurementest procedure



The equipment under test is placed on a wooden table with a height of 0,8 m in the EMC lab. The voltage fluctuations and flicker were measured at the supply terminals of the EUT.

4.3.3 Results

Parameter values recorded during the test:

Vrms at the end of test (Volt):	**231.29**			
Highest dt (%):	**0.00**	**Test limit (%):**	**3.30**	**Pass**
Time(mS) > dt:	**0.0**	**Test limit (mS):**	**500.0**	**Pass**
Highest dc (%):	**0.00**	**Test limit (%):**	**3.30**	**Pass**
Highest dmax (%):	**0.00**	**Test limit (%):**	**4.00**	**Pass**
Highest Pst (10 min. period):	**0.064**	**Test limit:**	**1.000**	**Pass**

5 Immunity Test

5.1 Performance Criteria Description in Clause 6 of EN 55014-2

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.

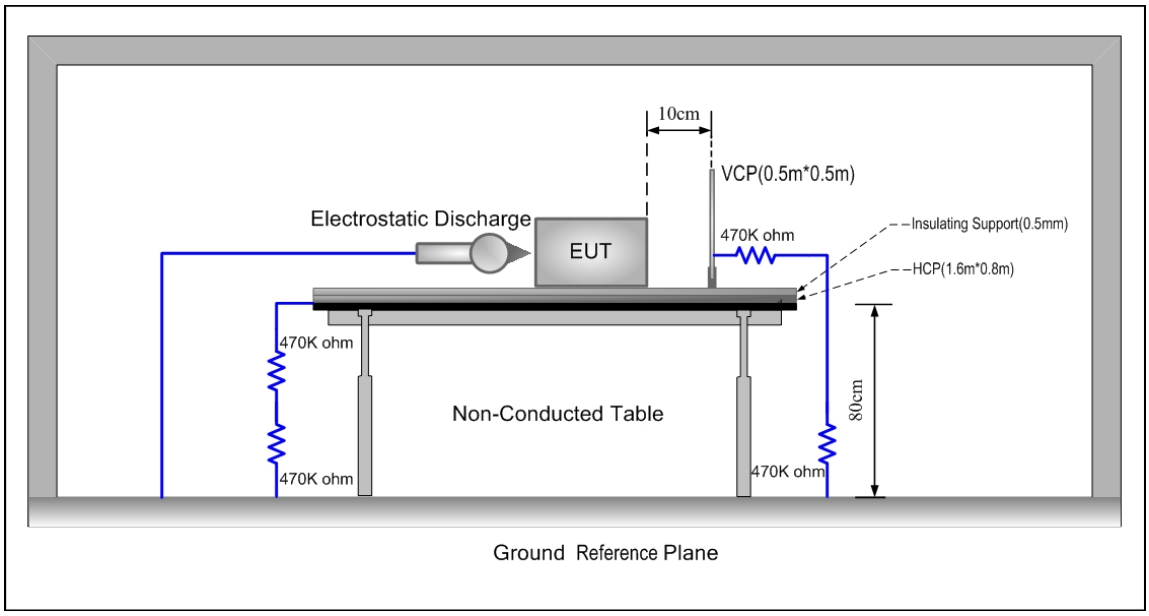
5.2 Classification of apparatus

Category I:	Apparatus containing no electronic control circuitry.
Category II:	Transformer toys, dual supply toys, mains powered motor operated appliances, tools, heating appliances and similar electric apparatus (for example . UV radiators, IR radiators and microwave ovens) containing electronic control circuitry with no internal clock frequency or oscillator frequency higher than 15 MHz.
Category III:	Battery powered apparatus (with built-in batteries or external batteries), which in normal use is not connected to the mains, containing an electronic control circuitry with no internal clock frequency or oscillator frequency higher than 15 MHz.
Category IV:	All other apparatus covered by the scope of this standard.

The EUT belongs to Category II.

5.3 ESD

5.3.1 Test Procedures



1. Contact discharge was applied only to conductive surfaces of the EUT. Air discharge was applied only to non-conducted surfaces of the EUT.
2. The EUT was put on a 0.8m high wooden table for table-top equipment or 0.1m high for floor standing equipment standing on the ground reference plane (GRP).
3. A horizontal coupling plane(HCP) 1.6m by 0.8m in size was placed on the table, and the EUT with its cables were isolated from the HCP by an insulating support thick than 0.5mm. The VCP 0.5m by 0.5m in size while HCP were constructed from the same material type and thickness as that of the GRP, and connected to the GRP via a 470kΩ resistor at each end. The distance between EUT and any of the other metallic surfaces excepted the GRP, HCP and VCP was greater than 1m.
4. During the contact discharges, the tip of the discharge electrode was touching the EUT before the discharge switch is operated. During the air discharges, the round discharge tip of the discharge electrode was approached as fast as possible to touch the EUT. After each discharge, the ESD generator was removed from the EUT, the generator is then retriggered for a new single discharge. For ungrounded product, a discharge cable with two resistances was used after each discharge to remove remnant electrostatic voltage. 10 times of each polarity single discharge were applied to HCP and VCP.

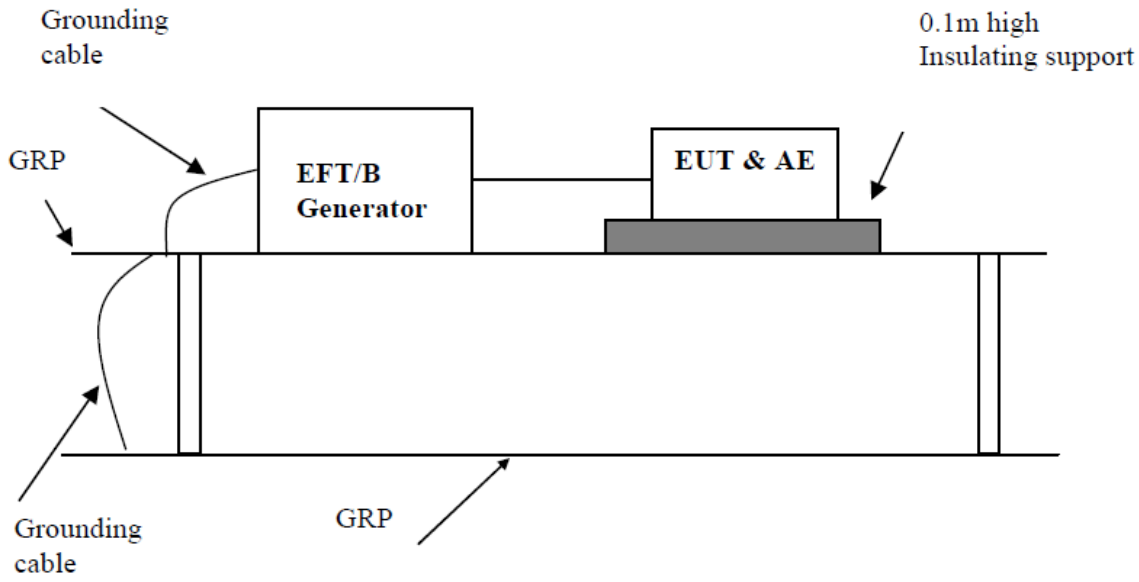
5.3.2 Results

Test point	Table (T) Floor (F)	Contact (C) Air (A)	Voltage (kV)	Number of discharge	Polarity (+ / -)	Opinion
Air contact	T	A	8	20	+ / -	A
Direct contact	T	C	4	20	+ / -	A
HCP	T	C	4	20	+ / -	A
VCP	T	C	4	20	+ / -	A

A: no loss of function.

5.4 Electrical Fast Transients

5.4.1 Measurement procedure



1. The EUT was placed on a ground reference plane(GRP) insulated by an insulating support 0,1 m thick and the GRP was placed on a 0.8m high wooden table for table-top equipment. For floor standing equipment, the EUT was placed on a 0.1m high wooden support above the GRP.
2. The GRP shall project beyond the EUT and the clamp by at least 0.1m on all sides. The distance between the EUT and any other of the metallic surface except the GRP was greater than 0.5m. All cables to the EUT was placed on the insulation support 0.1m above GRP. Cables not subject to EFT was routed as far as possible from cable under test to minimize the coupling between the cables.
3. The length of signal and power cable between the EUT and EFT generator was 0.5m. If the cable is a non-detachable supply cable more than 0.5m, the excess length of this cable shall be folded to avoid a flat coil and situated at a distance of 0.1m above the GRP.

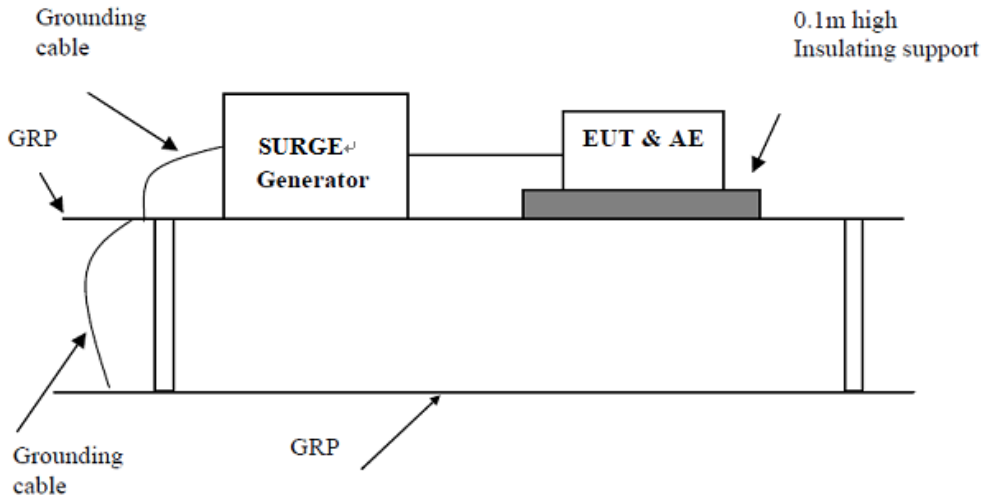
5.4.2 Results

Test port	Voltage (kV)	Polarity (+ / -)	Duration (s or min)	Waveform Tr / Th	Repetition Frequency (kHz)	Opinion
AC power line	1	+ / -	2 min	5/50 ns	5	A

A: no loss of function.

5.5 Surge Immunity

5.5.1 Measurement procedure



1. The EUT was placed on a ground reference plane(GRP) insulated by an insulating support 0,1 m thick and the GRP was placed on a 0.8m high wooden table for table-top equipment. For floor standing equipment, the EUT was placed on a 0.1m high wooden support above the GRP.
2. The 1,2/50 μs surge was to be applied to the EUT power supply terminals via the capacitive coupling network .Decoupling networks were required in order to avoid possible adverse effects on equipment not under test that may be powered by the same lines and to provide sufficient decoupling impedance to the surge wave so that the specified wave may be applied on the lines under test.
3. The positive pulses are applied 90° relative to the phase angle of the a.c. line voltage to the equipment under test, and the negative pulses are applied 270° relative to the phase angle of the a.c. line voltage to the equipment under test.

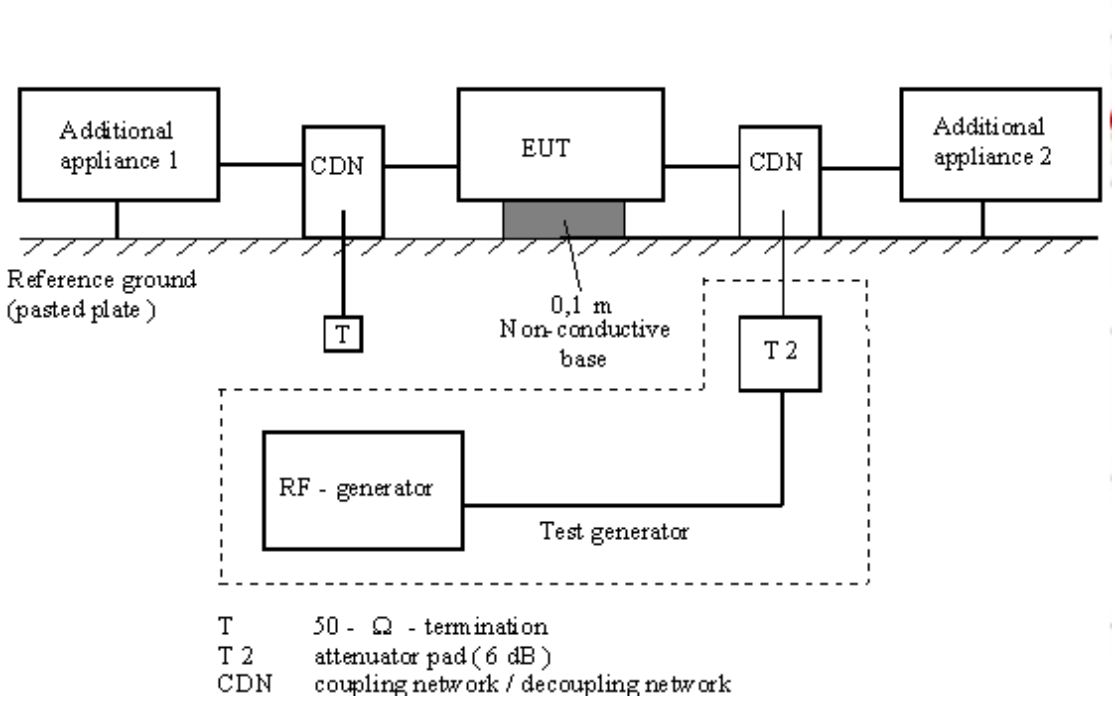
5.5.2 Results

Test mode	Polarity (+ / -)	Voltage (kV)	Waveform Tr / Th	Number of pulses	Opinion
Live-Neutral	+ / -	1	1.2/50 μs	5	A

A: no loss of function.

5.6 Injected currents(RF continues conducted)

5.6.1 Measurement procedure



1. The EUT was placed on an insulating support of 0.1m height above a ground reference Plane, arranged and connected to satisfy its functional requirement. All cables exiting the EUT was supported at a height of at least 30 mm above the ground reference plane.
2. The coupling and decoupling devices were required, they were located between 0,1 m and 0,3 m from the EUT. This distance was to be measured horizontally from the projection of the EUT on to the ground reference plane to the coupling and decoupling device.
3. The frequency range was swept from 150 kHz to 230 MHz, using the signal levels established during the setting process, and with the disturbance signal 80 % amplitude modulated with a 1 kHz sine wave, pausing to adjust the RF signal level or to change coupling devices as necessary. Where the frequency was swept incrementally, the step size do not exceed 1 % of the preceding frequency value. The dwell time of the amplitude modulated carrier at each frequency was not less than the time necessary for the EUT to be exercised and to respond, and was not less than 3s.

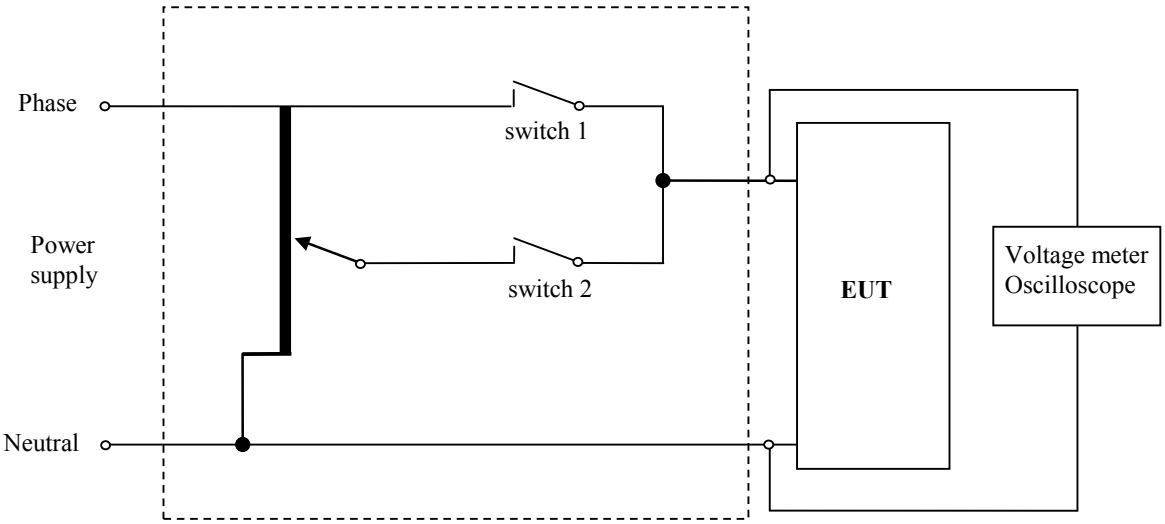
5.6.2 Results

Test port	Voltage (e.m.f.)	Modulation	Frequency Range	Opinion
AC power line	3 V	80% AM 1 kHz	150 kHz - 230 MHz	A

A: no loss of function.

5.7 Voltage dips and Interruption

5.7.1 Measurement procedure



1. The EUT was placed on a ground reference plane(GRP) insulated by an insulating support 0,1 m thick and the GRP was placed on a 0.8m high wooden table for table-top equipment. For floor standing equipment, the EUT was placed on a 0.1m high wooden support above the GRP.
2. The test was performed with the EUT connected to the test generator with the shortest power supply cable as specified by the EUT manufacturer. Voltage change shall occur at zero crossing.
3. The EUT was tested for each selected combination of test level and duration with a sequence of three dips /interruptions with intervals of 10 s minimum. Each representative mode of operation was tested.

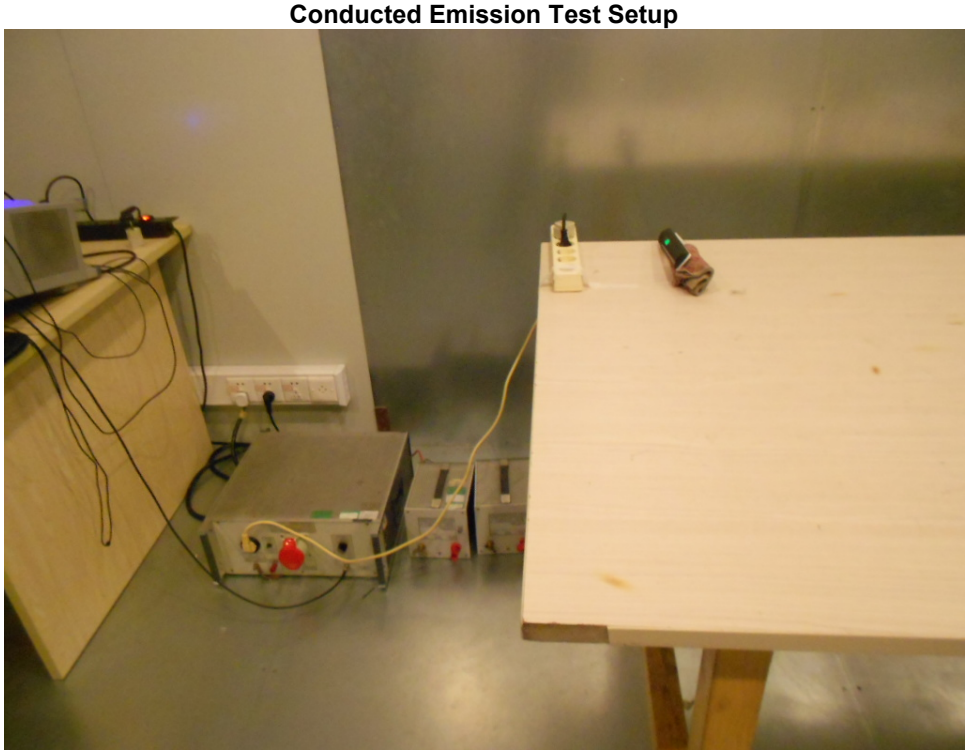
5.7.2 Results

Reduction of supply voltage of	Voltage in % (in V)	Duration in parts of period (in ms)	Opinion
interruption	0 % (0V)	0,5 (10 ms)	B
60 %	40 % (92 V)	10 (200 ms)	B
30 %	70 % (161 V)	25 (500 ms)	B

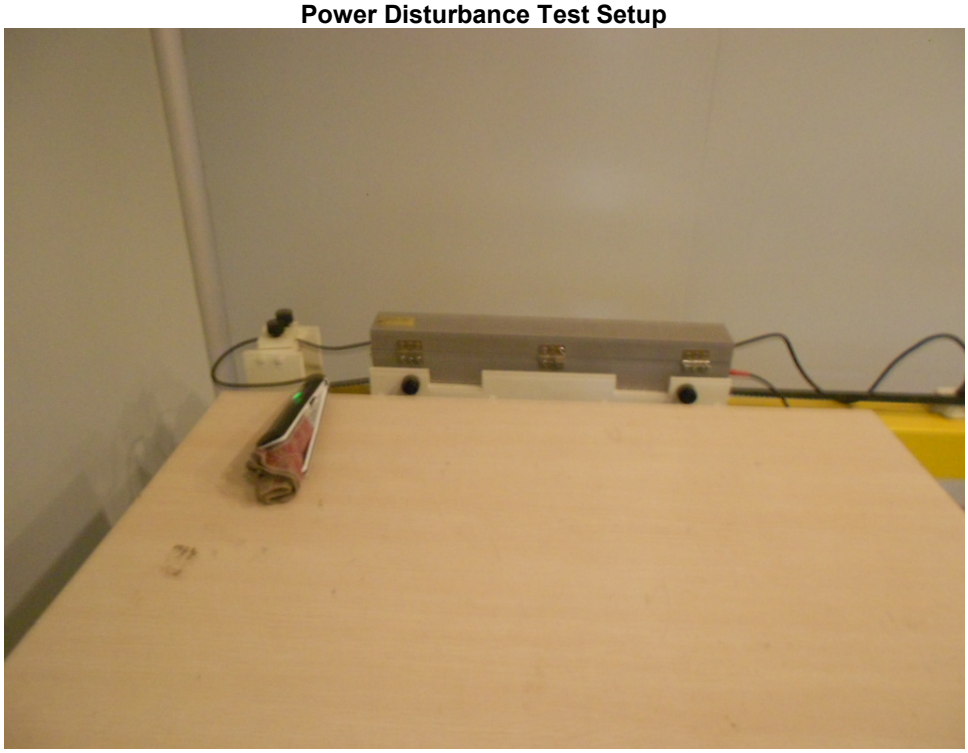
A: no loss of function.
B: the appliance could not work normal during test, but it would recover after test.

6 Test setup Photos

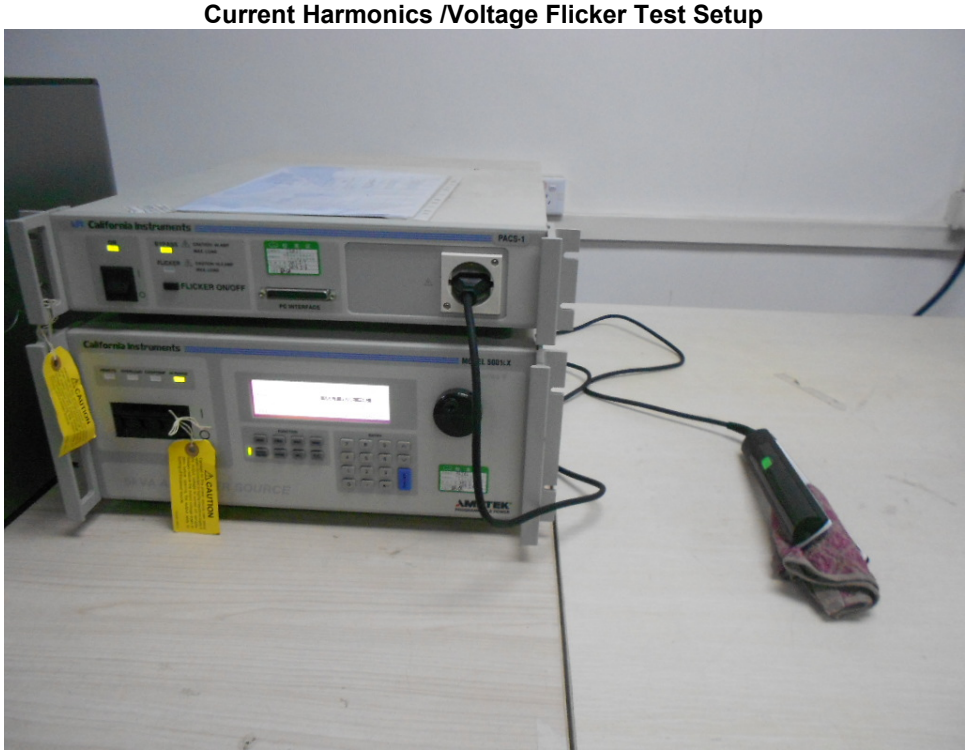
Conducted Emission Test Setup



Power Disturbance Test Setup

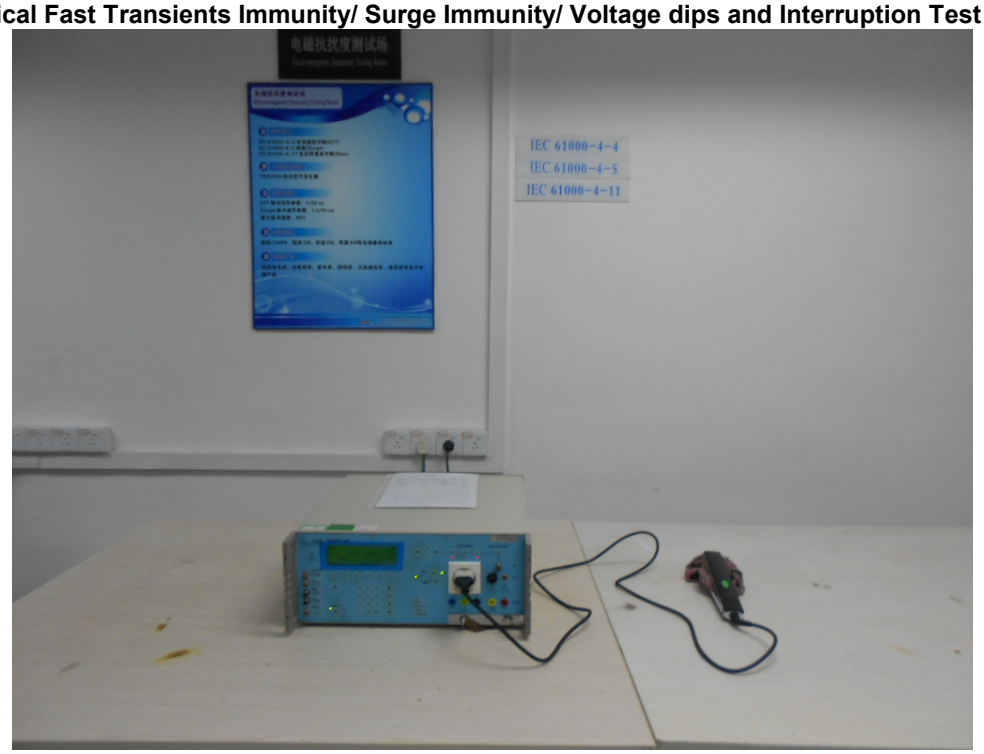


Current Harmonics /Voltage Flicker Test Setup



Electrostatic Discharge Test Setup

Electrical Fast Transients Immunity/ Surge Immunity/ Voltage dips and Interruption Test Setup

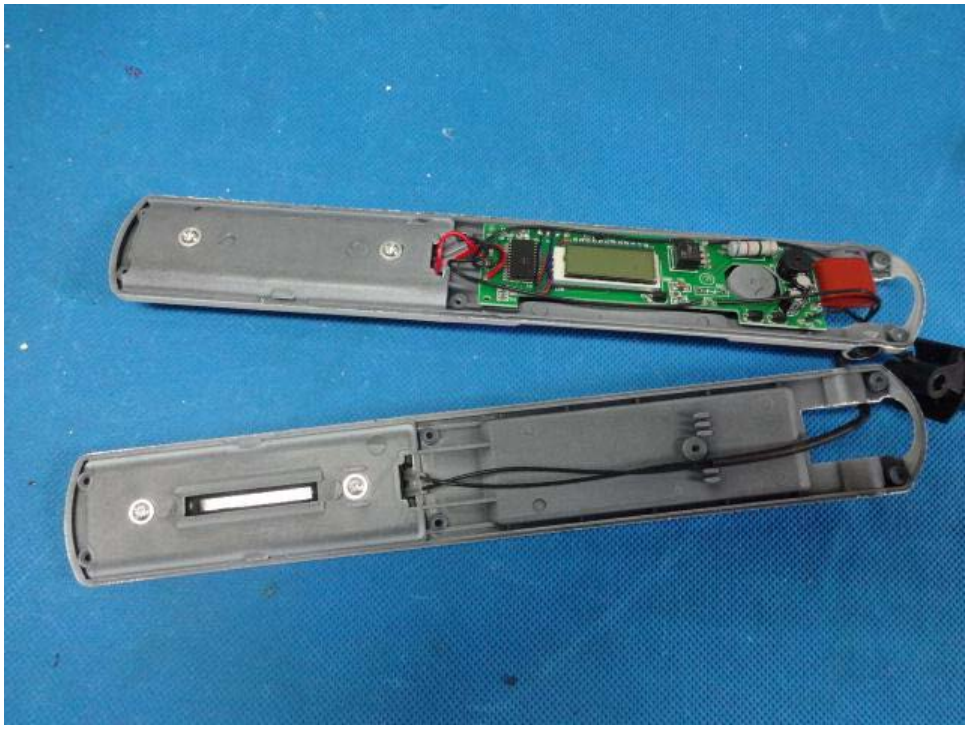


7 EUT Photos

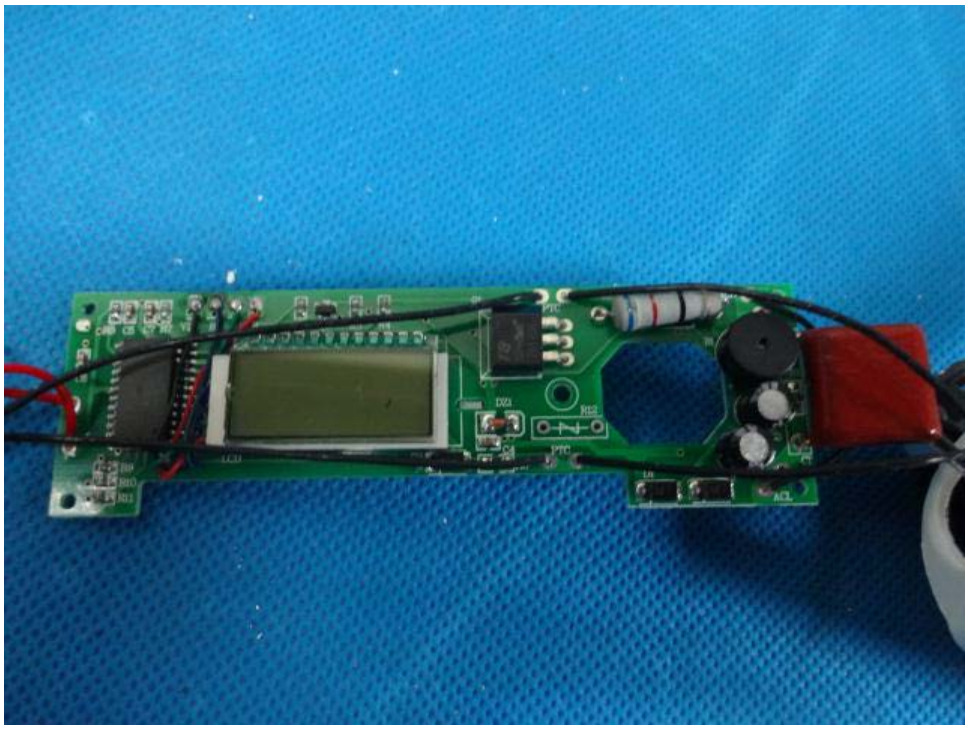
Description: Overall View for JD-905

Description: Back view

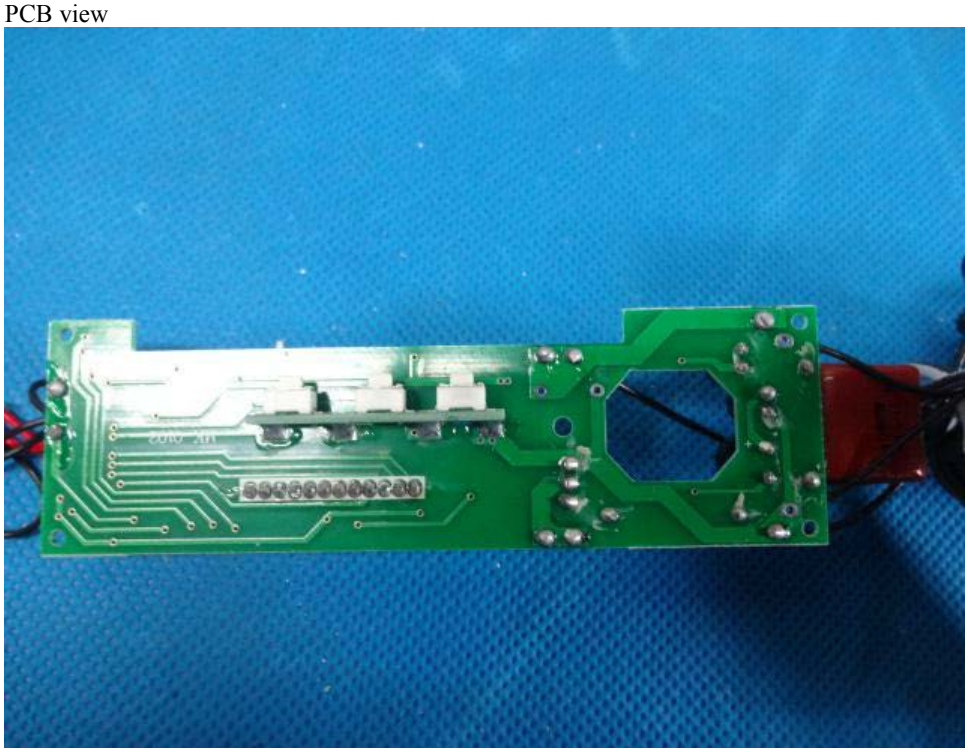
Description: internal view



Description: PCB view



Description: PCB view



Description: Overall View for JD-106 Overall View for JD-905

Description: Overall View for JD-107A Overall View for JD-906

Description: Overall View for JD-108