

CE-EMC TEST REPORT

For

Applicant Name: YIWU HEBANG TOOLSCO.,LTD.
Address: JINSHANROAD197, JINHUACITY, ZHEJIANGPROVINCE, CHINA.
Manufacturer: YIWU HEBANG TOOLSCO.,LTD.
Address: JINSHANROAD197, JINHUACITY, ZHEJIANGPROVINCE, CHINA.
EUT Name: HOTMELT GLUEGUN
Brand Name: 
Model Number: HB-01
Series Model Number: See page 6 of the report for details.

Issued By

Company Name: Shenzhen CID Testing Technology Co., Ltd.
Address: B124-126, 1/F, Area B, Co-Talent Creative Wisdom Park, No. 18, Shangliao Industrial Road, Xinqiao Sub-district, Shajing Town, Baoan District, Shenzhen, Guangdong Province, China.
Report Number: CID251208EMC001
Test Standards: EN IEC 55014-1: 2021
EN IEC 61000-3-2: 2019 + A1: 2021 + A2: 2024
EN 61000-3-3: 2013 + A1: 2019 + A2: 2021
EN IEC 55014-2: 2021
Test Conclusion: Pass
Test Date: 2025-12-02 to 2025-12-08
Date of Issue: 2025-12-08

Prepared By: Chris Liu
Chris Liu / Project Engineer
Date: 2025-12-08
Approved By: 
Abner Wang / EMC Manager
Date: 2025-12-08

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Revision History		
Version	Issue Date	Revisions Content
R_V0	2025-12-08	Original
<i>Note: Once the revision has been made, then previous versions reports are invalid.</i>		

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1 Introduction

1.1 Identification of Testing Laboratory

Company Name:	Shenzhen CID Testing Technology Co., Ltd.
Address:	B124-126, 1/F, Area B, Co-Talent Creative Wisdom Park, No. 18, Shangliao Industrial Road, Xinqiao Sub-district, Shajing Town, Baoan District, Shenzhen, Guangdong Province, China.
Phone Number:	+86-0755-85252582
Fax Number:	+86-0755-85252582

1.2 Identification of the Responsible Testing Location

Company Name:	Shenzhen CID Testing Technology Co., Ltd.
Address:	B124-126, 1/F, Area B, Co-Talent Creative Wisdom Park, No. 18, Shangliao Industrial Road, Xinqiao Sub-district, Shajing Town, Baoan District, Shenzhen, Guangdong Province, China.
Phone Number:	+86-0755-85252582
Fax Number:	+86-0755-85252582

1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by Shenzhen CID Testing Technology Co., Ltd. and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2 Product Information

2.1 Application Information

Company Name:	YIWU HEBANG TOOLSCO.,LTD.
Address:	JINSHANROAD197, JINHUACITY, ZHEJIANGPROVINCE, CHINA.

2.2 Manufacturer Information

Company Name:	YIWU HEBANG TOOLSCO.,LTD.
Address:	JINSHANROAD197, JINHUACITY, ZHEJIANGPROVINCE, CHINA.

2.3 General Description of Equipment under Test (EUT)

EUT Name:	HOTMELT GLUEGUN
Test Model Number:	HB-01
Brand Name:	
Series Model Number:	HB-02, HB-G001B, HB-G065(100W), HL008(10W), HL012(60W), HL018(80W), ASR-G09(20W), ASR-G14(40W), ASR-G15(60W), ASR-G16(20W), ASR-G17(100W), HB-G001, HB-G005, HB-G019, HB-G029, HB-G018, HB-G028, HB-G058, HB-G010, HB-JH01, HB-G003, HB-G016, HB-G059, HB-G033, HB-G060, HB-G035, HB-G036, HB-G011, HB-G008, HB-G006, HB-G009, HB-G021, HB-G063, HB-G061, HB-G065, HB-G050, HB-G068, HB-G066, HB-G004, HB-G020, HB-G025, HB-G030, HB-G035, HB-G040, HB-G045, HB-G050, HB-G055, HB-G070, HB-G075, HB-G080, HB-G085, HB-G090, HB-G095, HB-G100
Description of Model name differentiation:	It's just that the power is different, but the key components, structure and principle are the same.
Hardware Version:	N/A

2.4 Technical Information

Power Supply:	AC 110-240 V~
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3 Summary of Test Results

3.1 Test Standards

The tests were performed according to following standards:

EN IEC 55014-1: 2021

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

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

EN IEC 55014-2: 2021

3.2 Uncertainty of Test

Item	Measurement Uncertainty
Conducted Emission (150 kHz-30 MHz)	±2.64dB
Radiated Emissions (30M - 1GHz)	±4.12dB
Radiated Emissions (above 1GHz)	1-6GHz: ±3.94dB 6-18GHz: ±4.16dB
Voltage Flicker	±5.88%

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.3 Summary of Test Result

Item	Standard	Requirement	Result
Conducted emissions from AC mains power ports (150kHz-30MHz)	EN IEC 55014-1:2021	Class B	Pass
Radiated emissions(30MHz-1GHz)	EN IEC 55014-1:2021	Class B	Pass
Radiated emissions (above 1GHz)	EN IEC 55014-1:2021	Class B	Pass
Voltage fluctuations and flicker	EN 61000-3-3:2013+A2:2021	EN 61000-3-3, Clause 4	Pass
Electrostatic discharges	EN IEC 55014-2:2021	Contact Discharge: +/- 4kV Air Discharge: +/- 8kV	Pass
RF electromagnetic field disturbances	EN IEC 55014-2:2021	3V/m, 80%, 1kHz Amp. Mod.	Pass
Electrical fast transients / burst for AC mains power ports	EN IEC 55014-2:2021	1kV; 5/50ns Tr/Th; 5kHz Repetition Frequency	Pass
Surges for AC mains power ports	EN IEC 55014-2:2021	1.2/50µs Tr/Td; 1kV Line to Line	Pass
Continuous induced RF disturbances for AC mains power ports (150kHz-80MHz)	EN IEC 55014-2:2021	0,15 to 10MHz 3Vrms (emf), 10 to 30MHz 3V to 1Vrms(emf), 30 to 80MHz 1Vrms(emf), 80%, 1kHz Amp. Mod.	Pass

Voltage dips and interruptions	EN IEC 55014-2:2021	<5% residual voltage for 0.5 periods: B, 70% residual voltage for 25 periods: C, <5% residual voltage for 250 periods: C	Pass
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4 Test Configuration

4.1 Test Equipment List

Conducted emissions from AC mains power ports (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	00953	/	/
Coaxial Switcher	SCHWARZBECK	CX210	CX210	/	/
V-LISN	SCHWARZBECK	NSLK 8127	01073	2024-11-16	2025-11-15
LISN	AFJ	LS16/110VAC	16010020076	2024-11-26	2025-11-25
EMI Receiver	ROHDE&SCHWARZ	ESC13	101422	2024-11-15	2025-11-14

Radiated emissions (30MHz-1GHz)					
Radiated emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2024-03-24	2025-03-23
Preamplifier	SCHWARZBECK	BBV9744	00246	/	/
RE Cable	REBES Talent	UF1-SMASM AM- 10m	21101566	/	/
RE Cable	REBES Talent	UF2-NMNM-1 0m	21101570	/	/
RE Cable	REBES Talent	UF1-SMASM AM- 1m	21101568	/	/
RE Cable	REBES Talent	UF2-NMNM-1 m	21101576	/	/
RE Cable	REBES Talent	UF2-NMNM-2 .5m	21101573	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2024-11-13	2025-11-12
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESC17	101032	2024-11-16	2025-11-15
SIGNAL ANALYZER	ROHDE&SCHWARZ	FSQ40	100010	2024-11-16	2025-11-15
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/

Broadband Preamplifier	SCHWARZBECK	BBV9718D	00008	/	/
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2024-09-22	2025-09-21
EZ EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2024-11-13	2025-11-12

Voltage fluctuations and flicker

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Harmonic and Flicker system	ZES ZIMMER	HAF5000S	930670	2024-11-16	2025-11-15

Electrostatic discharges

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
ESD Generator	Prima	PESD6030	PR210823683	2024-11-16	2025-11-15

RF electromagnetic field disturbances

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Field Probe	Narda	EP-601	811ZX01057	2024-09-03	2025-09-02
Antenna	SKET	STLP9129 Plus	/	/	/
Amplifier	SKET	HAP_03G06 G-80W	202004044	2024-09-03	2025-09-02
Amplifier	SKET	HAP_01G03 G-75W	202104180	2024-07-03	2025-07-02
Amplifier	SKET	HAP_80M01 G-250W	/	2025-02-23	2026-02-22
USB Power Sensor	Agilent	U2001A	MZ54330012	2025-02-23	2026-02-22
USB Power sensor	Agilent	U2000A	MY53410013	2025-02-23	2026-02-22
Signal Generator	Agilent	N5181A	MY50141997	2024-11-16	2025-11-15

Electrical fast transients / burst for AC mains power ports

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coupling clamp	Prima	EFT-CLAMP	EFT-327	2024-11-16	2025-11-15
EFT Generator	Prima	PEFT6030-3816	PR210343256	2024-11-16	2025-11-15

Surges for AC mains power ports

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Isolation	Prima	JMB-2KVA	LL-PLM2125	2024-11-16	2025-11-15

transformer					
Surge Generator	Prima	PSUG6010-2 216	PR210955342	2024-11-16	2025-11-15

Continuous induced RF disturbances for AC mains power ports (150kHz-80MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
CDN coupling	Prima	CRF-CDN-M3 16	PR210881049	2024-11-16	2025-11-15
CDN coupling	Prima	CRF-CDN-M2 16	PR210881044	2024-11-16	2025-11-15
6DB ATTENUATOR	Prima	50W DC-3GHZ	T2A-50-6-3-N	2024-09-24	2025-09-23
Rf conduction immunity test system	Prima	CRF61006A	PR210681042	2024-11-16	2025-11-15

Voltage dips and interruptions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Dips Generator	Prima	PDIP6010	PR20076499	2024-11-16	2025-11-15

4.2 Test Auxiliary Equipment

Title	Manufacturer	Model No.	Serial No.
/	/	/	/

4.3 Test Modes

No.	Test Modes	Description
TM1	Charging	

5 EMC EMISSION TEST

5.1 CONDUCTED EMISSION MEASUREMENT

5.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

Frequency Range (MHz)	At mains terminals	
	Quasi-peak (dBuV)	Average (dBuV)
0.15 -0.5	66 - 56 *	59 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

5.1.2 MAINS TERMINALS OF TOOLS

Frequency Range	Rated motor power not exceeding 700W		Rated motor power above 700W and not exceeding 1 000 W		Rated motor power above 1 000 W	
(MHz)	dB (uV) Quasi-peak	dB (uV) Average**	dB (uV) Quasi-peak	dB (uV) Average**	dB (uV) Quasi-peak	dB (uV) Average**
0.15 -0.5	66.0 to 59.0*	59.0 to 49.0*	70.0 to 63.0*	63.0 to 53.0*	76.0 to 69.0*	69.0 to 59.0*
0.50 -5.0	59.0	49.0	63.0	53.0	69.0	59.0
5.0 -30.0	64.0	54.0	68.0	58.0	74.0	64.0

Note:

(1)The tighter limit applies at the band edges.

(2)The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

(3)*** 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.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

5.1.3 TEST PROCEDURE

a.The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

b.Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

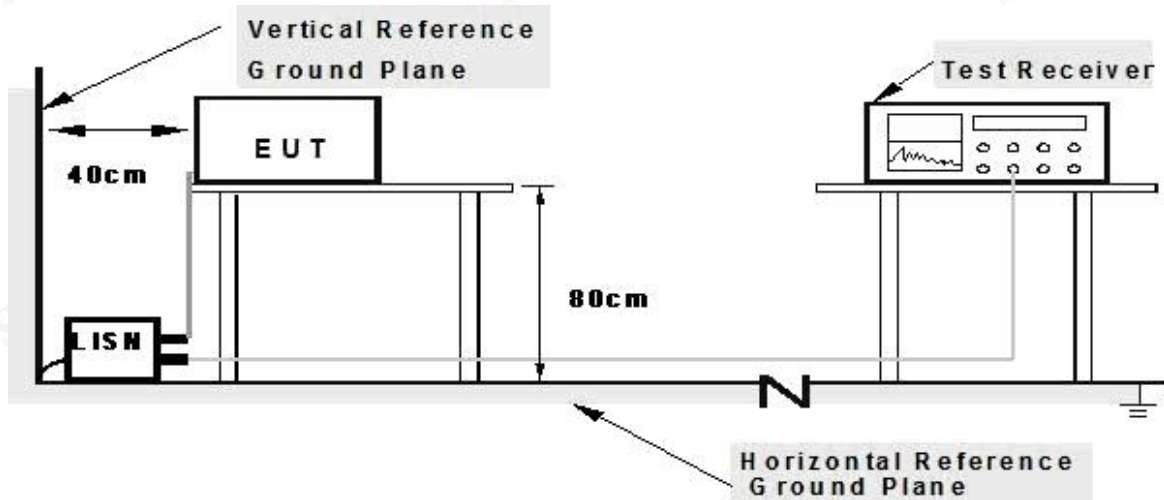
c.I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable

may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

d. LISN at least 80 cm from nearest part of EUT chassis.

e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

5.1.4 TEST SETUP



Note: 1. Support units were connected to second LISN.

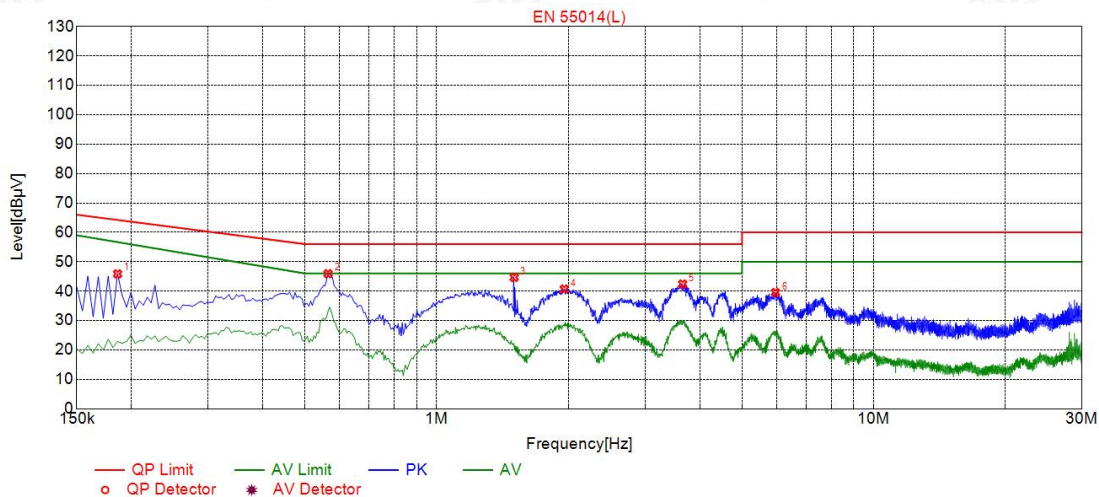
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

5.1.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.6 TEST RESULTS

EUT:	HOTMELT GLUEGUN	Model Name:	HB-01
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2025-12-05
Test Mode:	Mode 1	Phase :	L
Test Voltage:	AC 230V		



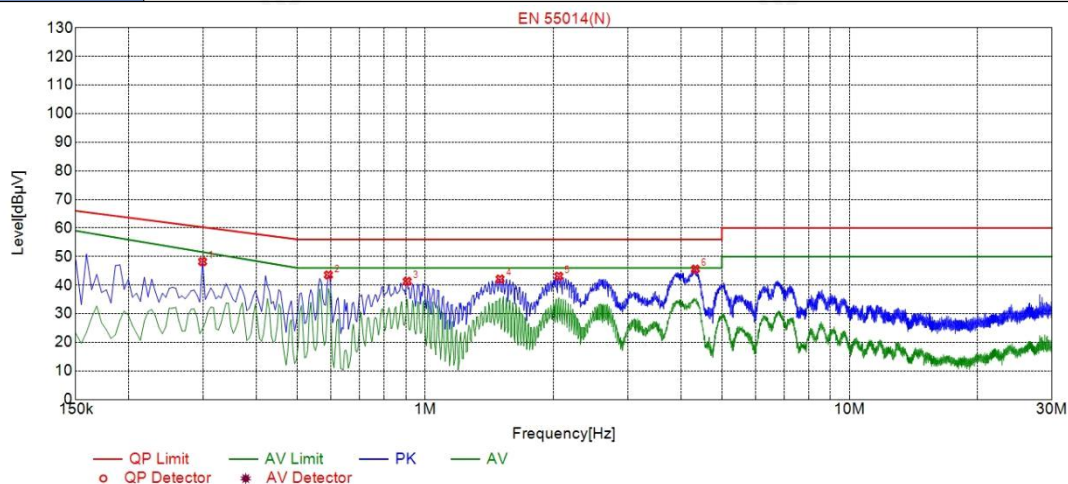
Suspected List								
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1860	45.87	19.76	64.21	18.34	26.11	PK	L
2	0.5640	45.92	19.79	56.00	10.08	26.13	PK	L
3	1.5045	44.68	19.96	56.00	11.32	24.72	PK	L
4	1.9590	40.70	20.13	56.00	15.30	20.57	PK	L
5	3.6555	42.42	20.33	56.00	13.58	22.09	PK	L
6	5.9640	39.52	20.40	60.00	20.48	19.12	PK	L

Remark: Margin=Limit-Level

Correction factor = Cable lose +LISN insertion loss

Level=Test receiver reading + correction factor

EUT:	HOTMELT GLUEGUN	Model Name:	HB-01
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2025-12-05
Test Mode:	Mode 1	Phase :	L
Test Voltage:	AC 230V		



Suspected List								
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.2985	48.22	19.87	60.28	12.06	28.55	PK	N
2	0.5910	43.57	19.75	56.00	12.43	23.82	PK	N
3	0.9060	41.34	19.76	56.00	14.66	21.58	PK	N
4	1.5000	42.15	19.85	56.00	13.85	22.30	PK	N
5	2.0625	43.13	19.95	56.00	12.87	23.18	PK	N
6	4.3305	45.61	20.19	56.00	10.39	25.42	PK	N

Remark: Margin=Limit-Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

5.2 RADIATED EMISSION MEASUREMENT

5.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT (Below 1000MHz)

FREQUENCY (MHz)	At 10m	At 3m
	dBuV/m	dBuV/m
30 – 230	30	40
230 – 1000	37	47

5.2.2 LIMITS OF DISTURBANCE POWER MEASUREMENT (Below 1000MHz)

		Household and similar appliances					Tools	
Frequency Range (MHz)				Rated motor power not exceeding 700 W		Rated motor power above 700 W and not exceeding 1 000 W		
		dB (pW) Quasi-peak	dB (pW) Averag*	dB (pW) Quasi-peak	dB (pW) Averag*	dB (pW) Quasi-peak	dB (pW) Averag*	
30-300		45-55	35-45	45-55	35-45	49-59	39-49	

Notes:

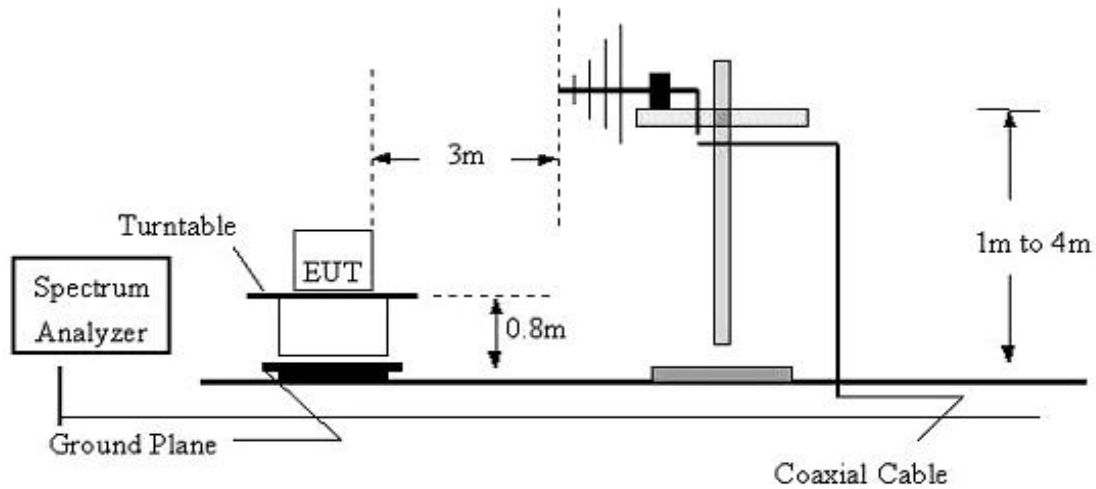
- (1)The limit for radiated test was performed according to as following: CISPR 14.
- (2)The tighter limit applies at the band edges.
- (3)Emission level (dBuV/m)=20log Emission level (uV/m).

5.2.3 TEST PROCEDURE

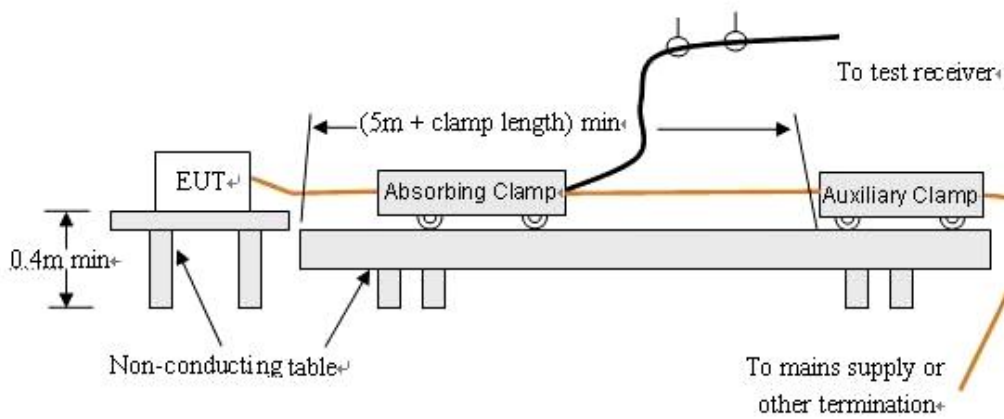
- a.The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b.The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c.The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d.The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured, above 1G Average detector mode will be instead.
- e.If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP(AV) Limits and then no additional QP Mode measurement performed.
- f.For the actual test configuration, please refer to the related Item –EUT Test Photos.

5.2.4 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Disturbance Power Test Set-UP Frequency Below 1GHz

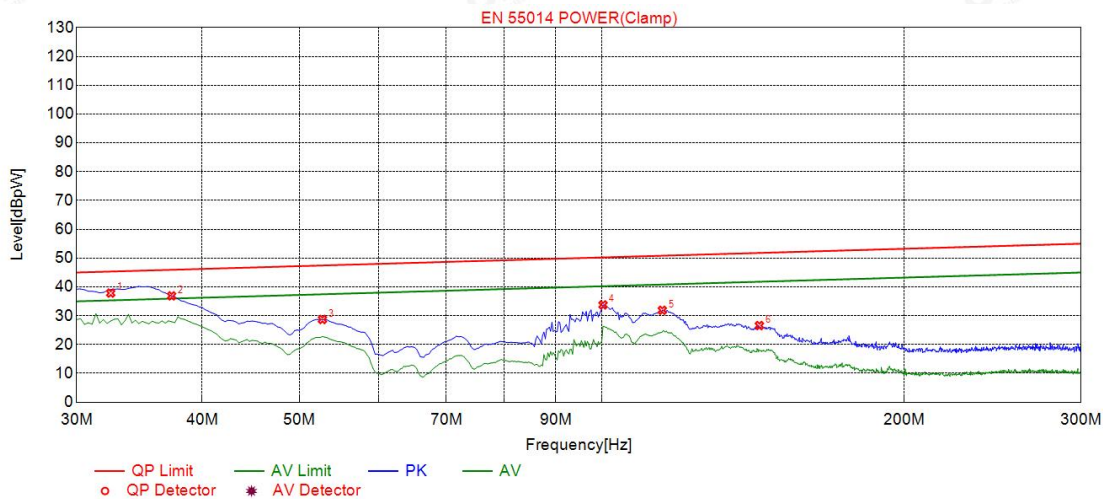


5.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

5.2.6 TEST RESULTS (30MHz ~300MHz)

EUT:	HOTMELT GLUEGUN	Model Name:	HB-01
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2025-12-05
Test Mode:	Mode 1	Phase :	L
Test Voltage:	AC 230V		



Suspected List

NO.	Freq. [MHz]	Level[d Bpw]	Factor [dB]	Reading [dBpW]	Limit [dBpw]	Margin [dB]	Detector	Type
1	32.4324	37.86	9.24	28.62	45.34	7.48	PK	Clamp
2	37.2973	36.91	8.95	27.96	45.95	9.04	PK	Clamp
3	52.7027	28.70	5.93	22.77	47.45	18.75	PK	Clamp
4	100.2703	33.76	5.63	28.13	50.24	16.48	PK	Clamp
5	114.8649	31.90	5.33	26.57	50.83	18.93	PK	Clamp
6	143.5135	26.60	5.68	20.92	51.80	25.20	PK	Clamp

Remark: Margin=Limit - Level

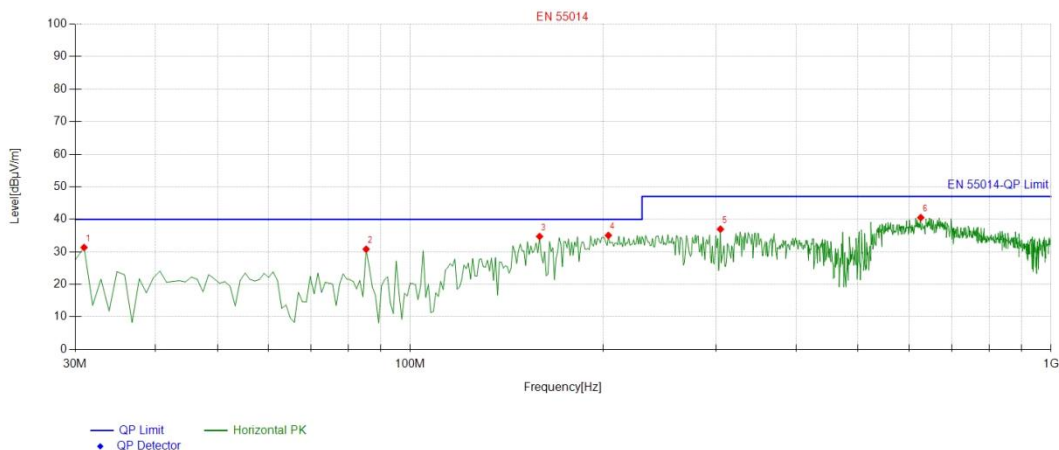
Correction factor =Cable lose + insertion loss

Level=Test receiver reading + correction factor

5.2.7 TEST RESULTS (30MHz-1000MHz)

Note: All the test modes completed for test. only the worst result of was reported.

EUT:	HOTMELT GLUEGUN	Model Name:	HB-01
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2025-12-05
Test Mode:	Mode 1	Phase :	L
Test Voltage:	AC 230V		



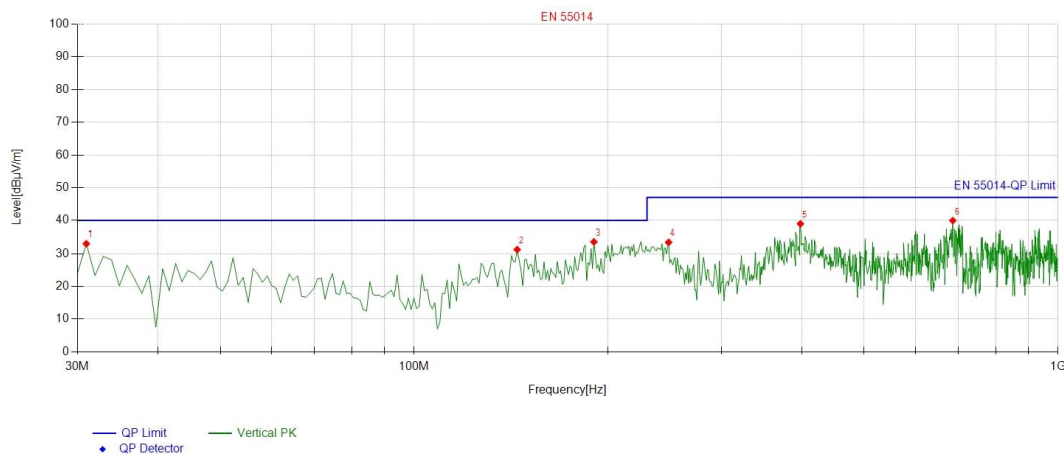
Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.970971	-18.06	49.39	31.33	40.00	8.67	100	173	Horizontal
2	85.345345	-21.57	52.38	30.81	40.00	9.19	100	356	Horizontal
3	159.13913	-17.16	51.87	34.71	40.00	5.29	100	246	Horizontal
4	203.80380	-20.83	55.87	35.04	40.00	4.96	100	154	Horizontal
5	304.78478	-17.32	54.28	36.96	47.00	10.04	100	351	Horizontal
6	626.17617	-10.52	51.04	40.52	47.00	6.48	100	162	Horizontal

Remark: Factor =Cable loss +Antenna factor-Preamplifier;

Level = Reading +Factor;

Margin=Limit-Level;

EUT:	HOTMELT GLUEGUN	Model Name:	HB-01
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2025-12-05
Test Mode:	Mode 1	Phase :	L
Test Voltage:	AC 230V		



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.970971	-18.06	51.12	33.06	40.00	6.94	100	349	Vertical
2	144.57457	-17.70	48.98	31.28	40.00	8.72	100	36	Vertical
3	190.21021	-20.19	53.82	33.63	40.00	6.37	100	305	Vertical
4	248.46846	-19.35	52.84	33.49	47.00	13.51	100	259	Vertical
5	397.99799	-15.12	54.05	38.93	47.00	8.07	100	105	Vertical
6	686.37637	-9.49	49.42	39.93	47.00	7.07	100	347	Vertical

Remark: Factor = Cable loss +Antenna factor - Preamplifier;

Level = Reading+Factor;

Margin=Limit-Level;

5.2.8 TEST RESULTS (1000MHz~6000MHz)

EUT:	HOTMELT GLUEGUN	Model Name:	HB-01
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2025-12-05
Test Mode:	Mode 1	Phase :	L
Test Voltage:	AC 230V		
Note: EUT highest frequency is less than 108MHz, so this test report is not applicable.			

5.3 HARMONICS CURRENT

5.3.1 LIMITS OF HARMONICS CURRENT

IEC 555-2					
Table - I			Table - II		
Equipment Category	Harmonic Order n	Max. Permissible Harmonic Current (in Amperes)	Equipment Category	Harmonic Order n	Max. Permissible Harmonic Current (in Amperes)
Non Portable Tools or TV Receivers	Odd Harmonics		TV Receivers	Odd Harmonics	
	3	2.30		3	0.80
	5	1.14		5	0.60
	7	0.77		7	0.45
	9	0.40		9	0.30
	11	0.33		11	0.17
	13	0.21		13	0.12
	15≤n≤39	0.15 · 15/n		15≤n≤39	0.10 · 15/n
	Even Harmonics			Even Harmonics	
	2	1.08		2	0.30
	4	0.43		4	0.15
	8	0.30			
8≤n≤40	0.23 · 8/n	DC	0.05		

EN 61000-3-2/IEC 61000-3-2					
Equipment Category	Max. Permissible Harmonic Current (in Amperes)	Equipment Category	Harmonic Order n	Max. Permissible Harmonic Current (in A) (mA/w)	
Class A	Same as Limits Specified in 4-2.1, Table - I, but only odd harmonics required	Class D	3	2.30	3.4
			5	1.14	1.9
			7	0.77	1.0
			9	0.40	0.5
			11	0.33	0.35
			13≤n≤39	see Table I	3.85/n
			only odd harmonics required		

5.3.1.1 TEST PROCEDURE

a. The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the maximum harmonic components under normal operating conditions.

b. The classification of EUT is according to section 5 of EN IEC 61000-3-2. The EUT is classified as follows:

Class A: Balanced three-phase equipment, Household appliances excluding equipment as Class D, Tools excluding portable tools, Dimmers for incandescent lamps, audio equipment, equipment not specified in one of the three other classes.

Class B: Portable tools. Portable tools.; Arc welding equipment which is not professional equipment.

Class C: Lighting equipment.

Class D: Equipment having a specified power less than or equal to 600 W of the following types:

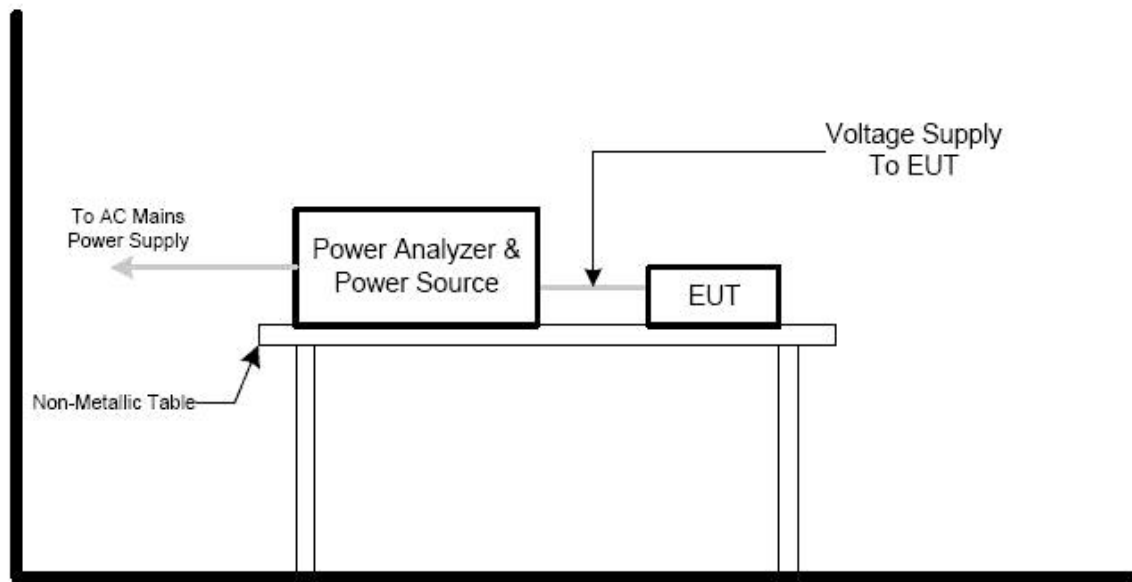
Personal computers and personal computer monitors and television receivers.

c. The correspondent test program of test instrument to measure the current harmonics emanated from EUT is chosen. The measure time shall be not less than the time necessary for the EUT to be exercised.

5.3.1.2 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

5.3.1.3 TEST SETUP



5.3.2 TEST RESULTS

EUT:	HOTMELT GLUEGUN	Model Name:	HB-01
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2025-12-05
Test Mode:	Mode 1	Phase :	L
Test Voltage:	AC 230V		
Note: EUT power is less than 75W, so this test report is not applicable.			

5.4 VOLTAGE FLUCTUATION AND FLICKERS

5.4.1 LIMITS OF VOLTAGE FLUCTUATION AND FLICKERS

Tests	Limits		Descriptions
	IEC555-3	IEC/EN 61000-3-3	
Pst	≤ 1.0 , Tp= 10 min.	≤ 1.0 , Tp= 10 min.	Short Term Flicker Indicator
Plt	N/A	≤ 0.65 , Tp=2 hr.	Long Term Flicker Indicator
dc	$\leq 3\%$	$\leq 3.3\%$	Relative Steady-State V-Chang
dmax	$\leq 4\%$	$\leq 4\%$	Maximum Relative V-change
d (t)	N/A	$\leq 3.3\%$ for > 500 ms	Relative V-change characteristic

5.4.1.1 TEST PROCEDURE

a. Harmonic Current Test:

Test was performed according to the procedures specified in Clause 5.0 of IEC555-2 and/or Sub-clause 6.2 of IEC/EN IEC 61000-3-2 depend on which standard adopted for compliance measurement.

b. Fluctuation and Flickers Test:

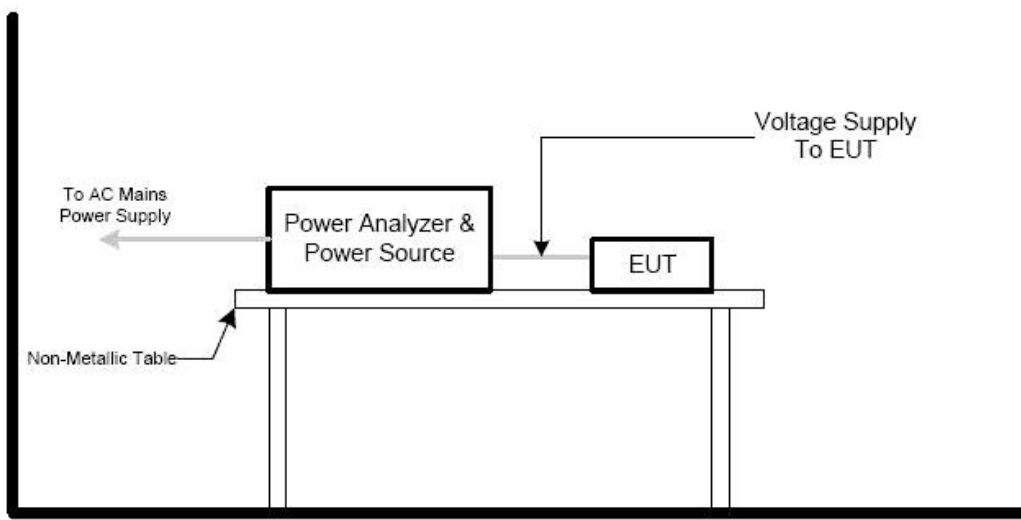
Tests was performed according to the Test Conditions/Assessment of Voltage Fluctuations specified in Clause 5.0/6.0 of IEC555-3 and/or Clause 6.0/4.0 of IEC/EN 61000-3-3 depend on which standard adopted for compliance measurement.

c. All types of harmonic current and/or voltage fluctuation in this report are assessed by direct measurement using flicker-meter.

5.4.1.2 EUT OPERATING CONDITIONS

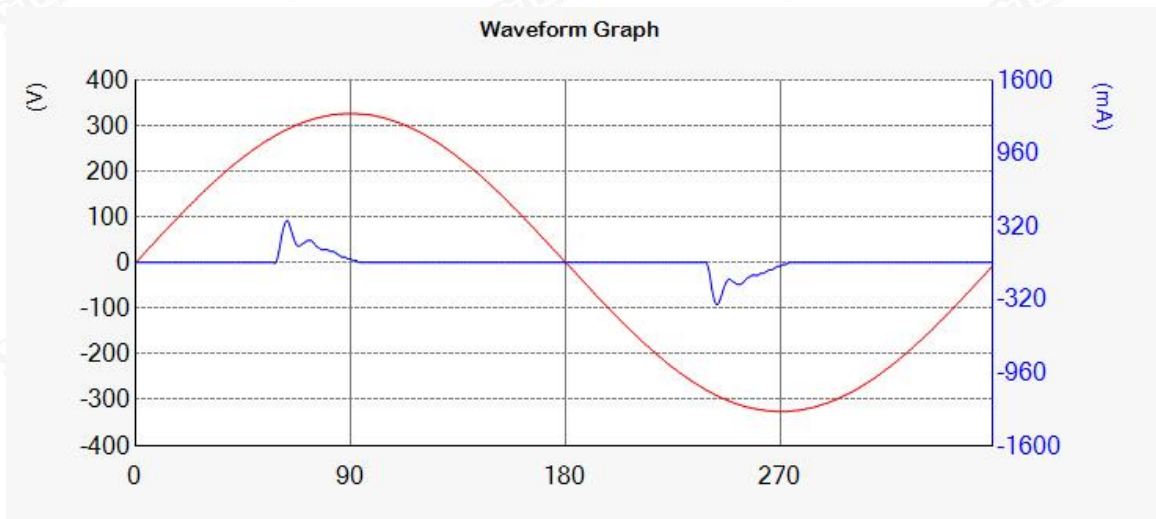
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

5.4.1.3 TEST SETUP



5.4.2 TEST RESULTS

EUT:	HOTMELT GLUEGUN	Model Name:	HB-01
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2025-12-05
Test Mode:	Mode 1	Phase :	L
Test Voltage:	AC 230V		



Voltage Fluctuations & Flicker		Additional	
	Measured	Limit	Status
dmax	0.00%	4%	pass
Tmax	0ms	500ms	pass
Maximun dc	0.00%	3.3%	pass
	0.00		
Plt	0.00	0.65	pass

6 EMC IMMUNITY TEST

6.1 STANDARD COMPLIANCE/SERVIRITY LEVEL/CRITERIA

Tests Standard No.	TEST SPECIFICATION	Test Mode Test Ports	Perform. Criteria
1. ESD IEC/EN 61000-4-2	8KV air discharge 4KV contact discharge	Direct Mode	B
	4KV HCP discharge 4KV VCP discharge	Indirect Mode	B
2. RS IEC/EN IEC 61000-4-3	80 MHz to 1000 MHz, 80%, AM modulated	Enclosure	A
3. EFT/Burst IEC/EN 61000-4-4	5/50ns Tr/Th 5KHz Repetition Freq.	Power Supply Port	B
	5/50ns Tr/Th 5KHz Repetition Freq.	CTL/Signal Data Line Port	B
4. Surges IEC/EN 61000-4-5	1.2/50(8/20) Tr/Th us	L-N	B
	1.2/50(8/20) Tr/Th us	L-PE N-PE	B
5 Injected Current IEC/EN 61000-4-6	0.15 MHz to 230 MHz, 1000Hz 80 % ,AM Modulated 150Ω source impedance	CTL/Signal Port	A
	0.15 MHz to 230 MHz, 1000Hz 80 % ,AM Modulated 150Ω source impedance	AC Power Port	A
	0.15 MHz to 230 MHz, 1000Hz 80 % ,AM Modulated 150Ω source impedance	DC Power Port	A
6. Volt. Interruptions Volt. Dips IEC/EN IEC 61000-4-11	Voltage dip 0%	AC Power Port	C
	Voltage dip 30%		C
	Voltage dip 60%		C

6.2 GENERAL PERFORMANCE CRITERIA

According to EN IEC 55014-2 standard, the general performance criteria as following:

Criterion A	The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.
Criterion B	After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test.
Criterion C	Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

6.3 GENERAL PERFORMANCE CRITERIA TEST SETUP

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

6.4 ESD TESTING

6.4.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-2
Discharge Impedance:	330 ohm / 150 pF
Required Performance	B
Discharge Voltage:	Air Discharge: 2kV/4kV/8kV (Direct) Contact Discharge: 2kV/4kV (Direct/Indirect)
Polarity:	Positive & Negative
Number of Discharge:	Air Discharge: min. 20 times at each test point Contact Discharge: min. 20 at each test point
Discharge Mode:	Single Discharge
Discharge Period:	1 second minimum

6.4.2 TEST PROCEDURE

The test generator necessary to perform direct and indirect application of discharges to the EUT in the following manner:

a. Contact discharge was applied to conductive surfaces and coupling planes of the EUT.

During the test, it was performed with single discharges. For the single discharge time between successive single discharges was at least 1 second. The EUT shall be exposed to at least 200 discharges, 100 each at negative and positive polarity, at a minimum of four test points. One of the test points shall be subjected to at least 50 indirect discharges to the center of the front edge of the horizontal coupling plane. The remaining three test points shall each receive at least 50 direct contact discharges.

If no direct contact test points are available, then at least 200 indirect discharges shall be applied in the indirect mode. Test shall be performed at a maximum repetition rate of one discharge per second.

Vertical Coupling Plane (VCP):

The coupling plane, of dimensions 0.5m x 0.5m, is placed parallel to, and positioned at a distance 0.1m from, the EUT, with the Discharge Electrode touching the coupling plane. The four faces of the EUT will be performed with electrostatic discharge.

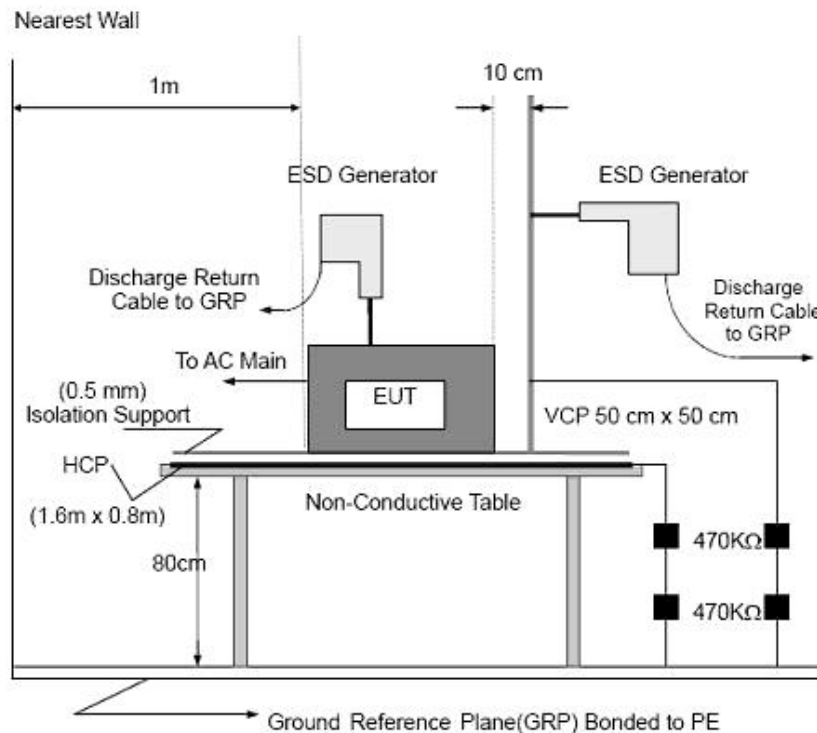
Horizontal Coupling Plane (HCP):

The coupling plane is placed under to the EUT. The generator shall be positioned vertically at a distance of 0.1m from the EUT, with the Discharge Electrode touching the coupling plane. The four faces of the EUT will be performed with electrostatic discharge.

b. Air discharges at insulation surfaces of the EUT.

It was at least ten single discharges with positive and negative at the same selected point.

6.4.3 TEST SETUP



Note:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table 0.8 meters high standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum at least 0.25mm thick, and 2.5 meters square connected to the protective grounding system. A Horizontal Coupling Plane (1.6m x 0.8m) was placed on the table and attached to the GRP by means of a cable with 940k total impedance. The equipment under test, was installed in a representative system as described in section 7 of IEC /EN 61000-4-2, and its cables were placed on the HCP and isolated by an insulating support of 0.5mm thickness. A distance of 1-meter minimum was provided between the EUT and the walls of the laboratory and any other metallic structure.

FLOOR-STANDING EQUIPMENT

The equipment under test was installed in a representative system as described in section 7 of IEC/EN 61000-4-2, and its cables were isolated from the Ground Reference Plane by an insulating support of 0.1-meter thickness. The GRP consisted of a sheet of aluminum that is at least 0.25mm thick, and 2.5meters square connected to the protective grounding system and extended at least 0.5 meters from the EUT on all sides.

6.4.4 TEST RESULTS

Note: All the test modes completed for test. only the worst result of was reported.

EUT:	HOTMELT GLUEGUN	Model Name:	HB-01
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2025-12-05
Test Mode:	Mode 1	Phase :	L
Test Voltage:	AC 230V		

Mode	Air Discharge								Contact Discharge								Criterion	Result
Test level (kV)	4		8		10		15		2		4		6		8			
Test Location	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-		
HCP									A	A	A	A					B	Pass
VCP									A	A	A	A						Pass
Metallic parts									A	A	A	A						Pass
enclosure	A	A	A	A														Pass
slot	A	A	A	A														Pass

Note:

1) +/- denotes the Positive/Negative polarity of the output voltage.

2)Test condition:

Direct / Indirect (HCP/VCP) discharges: Minimum 50 times (Positive/Negative) at each point. Air discharges: Minimum 10 times (Positive/Negative) at each point.

3)Test location(s) in which discharge (Air and contact discharge) to be applied illustrated by photos shown in next page(s)

4)The Indirect (HCP/VCP) discharges description of test point as following: 1.left side 2.right side 3.front side 4.rear side

5)N/A - denotes test is not applicable in this test report

6.5 RS TESTING

6.5.1 TEST SPECIFICATION

Basic Standard:	IEC/EN IEC 61000-4-3
Required Performance	A
Frequency Range:	80 MHz - 1000 MHz
Field Strength:	3 V/m
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of fundamental
Polarity of Antenna:	Horizontal and Vertical
Test Distance:	3 m
Antenna Height:	1.5 m
Dwell Time:	at least 3 seconds

6.5.2 TEST PROCEDURE

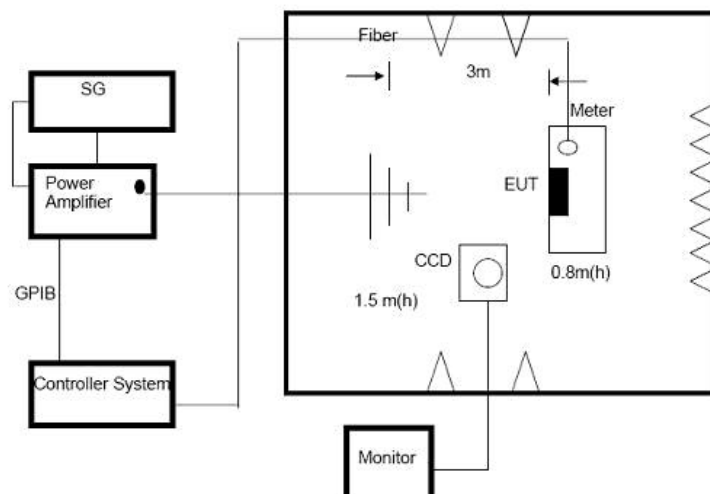
The EUT and support equipment, which are placed on a table that is 0.8 meter above ground and the testing was performed in a fully-anechoic chamber.

The testing distance from antenna to the EUT was 3 meters.

The other condition as following manner:

- The frequency range is swept from 80 MHz to 1000 MHz, & 1400MHz - 2700MHz with the signal 80%amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed 1.5×10^{-3} decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
- Sweep Frequency 900 MHz, with the Duty Cycle:1/8 and Modulation: Pulse 217 Hz(if applicable)
- The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.
- The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.

6.5.3 TEST SETUP



Note:

The EUT installed in a representative system as described in section 7 of IEC/EN IEC 61000-4-3 was placed on a non-conductive table 0.8 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN IEC 61000-4-3 was placed on a non-conductive wood support 0.1 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

6.5.4 TEST RESULTS

Note: All the test modes completed for test. only the worst result of was reported.

EUT:	HOTMELT GLUEGUN	Model Name:	HB-01
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2025-12-05
Test Mode:	Mode 1	Phase :	L
Test Voltage:	AC 230V		

Frequency Range (MHz)	RF Field Position	R.F. Field Strength	Azimuth	Perform. Criteria	Results	Judgment
80MHz - 1000MHz	H / V	3 V/m (rms) AM Modulated 1000Hz, 80%	Front	A	A	Pass
			Rear			
			Left			
			Right			

Note:

- 1)N/A - denotes test is not applicable in this test report.
- 2)Criteria A: There was no change operated with initial operating during the test.
- 3)Criteria B: The EUT function loss during the test, but self-recoverable after the test.
- 4)Criteria C: The system shut down during the test.

6.6 EFT/BURST TESTING

6.6.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-4
Required Performance:	B
Test Voltage:	Power Line: 1 kV Signal/Control Line: 0.5 KV
Polarity:	Positive & Negative
Impulse Frequency:	5 kHz
Impulse Wave shape :	5/50 ns
Burst Duration:	15 ms
Burst Period:	300 ms
Test Duration:	Not less than 1 min.

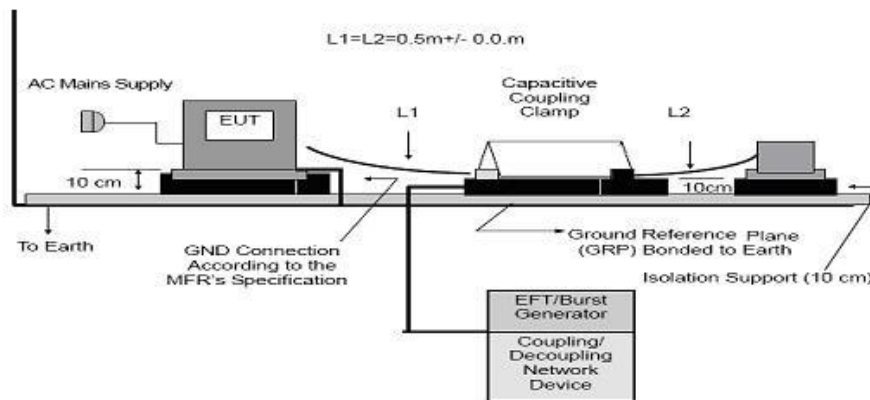
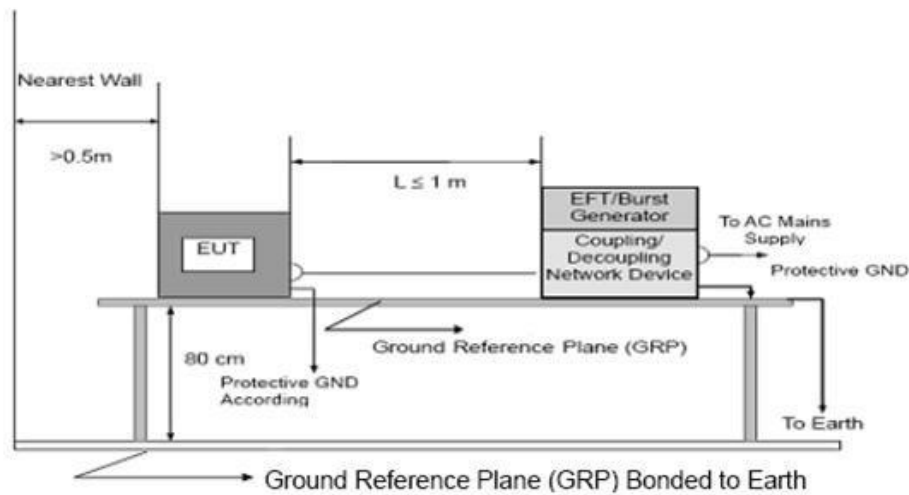
6.6.2 TEST PROCEDURE

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.

The other condition as following manner:

- The length of power cord between the coupling device and the EUT should not exceed 1 meter.
- Both positive and negative polarity discharges were applied.
- The duration time of each test sequential was 1 minute

6.6.3 TEST SETUP



Note:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table (0.8m high) standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system. A minimum distance of 0.5m was provided between the EUT and the walls of the laboratory or any other metallic structure.

FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-4 and its cables, were isolated from the Ground Reference Plane by an insulating support that is 0.1-meter thick. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system.

6.6.4 TEST RESULTS

EUT:	HOTMELT GLUEGUN	Model Name:	HB-01
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2025-12-05
Test Mode:	Mode 1	Phase :	L
Test Voltage:	AC 230V		

Coupling Line		Test level (kV)								Criterion	Result
		0.5		1		2		4			
		+	-	+	-	+	-	+	-		
AC line	L	A	A	A	A					B	Pass
	N	A	A	A	A						Pass
	PE										
	L+N	A	A	A	A						Pass
	L+PE										
	N+PE										
	L+N+PE										
DC Line											
Signal Line											

Note:

- 1) +/- denotes the Positive/Negative polarity of the output voltage.
- 2)N/A - denotes test is not applicable in this test report
- 3)Criteria A: There was no change operated with initial operating during the test.
- 4)Criteria B: The EUT function loss during the test, but self-recoverable after the test.
- 5)Criteria C: The system shut down during the test.

6.7 SURGE TESTING

6.7.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-5
Required Performance:	B
Wave-Shape:	Combination Wave 1.2/50 us Open Circuit Voltage 8 /20 us Short Circuit Current
Test Voltage:	Power Line: 0.5 kV, 1 kV, 2 kV
Surge Input/Output:	L-N, L-PE, N-PE
Generator Source:	2 ohm between networks
Impedance:	12 ohm between network and ground
Polarity:	Positive/Negative
Phase Angle:	0 /90/180/270°
Pulse Repetition Rate:	1 time / min. (maximum)

6.7.2 TEST PROCEDURE

a. For EUT power supply:

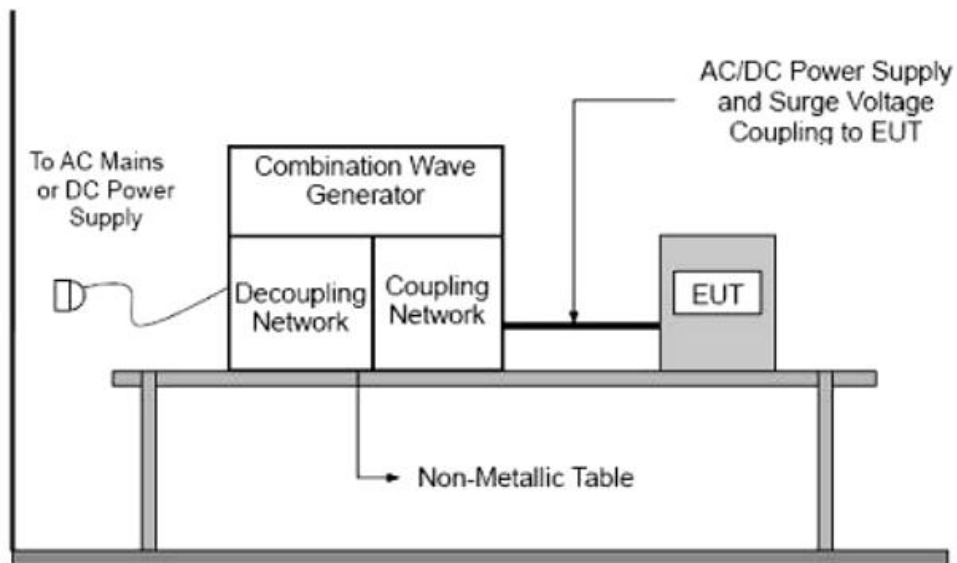
The surge is to be applied to the EUT power supply terminals via the capacitive coupling network. Decoupling networks are required in order to avoid possible adverse effects on equipment not under test that may be powered by the same lines, and to provide sufficient decoupling impedance to the surge wave. The power cord between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).

b. For test applied to unshielded unsymmetrically operated interconnection lines of EUT: The surge is applied to the lines via the capacitive coupling. The coupling /decoupling networks shall not influence the specified functional conditions of the EUT. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).

c. For test applied to unshielded symmetrically operated interconnection /telecommunication lines of EUT:

d. The surge is applied to the lines via gas arrestors coupling. Test levels below the ignition point of the coupling arrestor cannot be specified. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).

6.7.3 TEST SETUP



6.7.4 TEST RESULTS

EUT:	HOTMELT GLUEGUN	Model Name:	HB-01
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2025-12-05
Test Mode:	Mode 1	Phase :	L
Test Voltage:	AC 230V		

Coupling Line			Test level								Criterion	Result
			0.5 kV		1 kV		2 kV		4 kV			
			+	-	+	-	+	-	+	-		
AC line	L-N	0°									B	Pass
		90°	A		A							
		180°										
		270°		A		A						
	L-PE	0°										
		90°										
		180°										
		270°										
	N-PE	0°										
		90°										
		180°										
		270°										
DC Line												
Signal Line												

Note:

- 1)Polarity and Numbers of Impulses: 5 Pst / Ngt at each tested mode
- 2)N/A - denotes test is not applicable in this Test Report
- 3)Criteria A: There was no change operated with initial operating during the test.
- 4)Criteria B: The EUT function loss during the test, but self-recoverable after the test.
- 5)Criteria C: The system shut down during the test.

6.8 INJECTION CURRENT TESTING

6.8.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-6
Required Performance:	A
Frequency Range:	0.15 MHz - 230 MHz
Field Strength:	3 Vr.m.s.
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of fundamental
Dwell Time:	at least 3 seconds

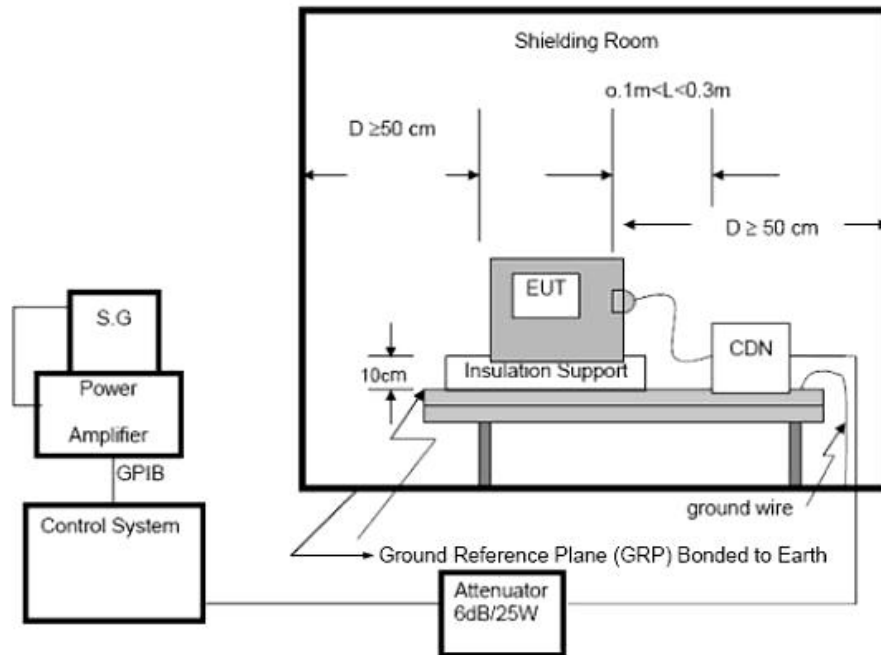
6.8.2 TEST PROCEDURE

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.

The other condition as following manner:

- a. The frequency range is swept from 150 KHz to 230 MHz, with the signal 80% amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed 1.5×10^{-3} decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
- b. The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.

6.8.3 TEST SETUP



Note:

FLOOR-STANDING EQUIPMENT

The equipment to be tested is placed on an insulating support of 0.1 meters height above a ground reference plane. All relevant cables shall be provided with the appropriate coupling and decoupling devices at a distance between 0.1 meters and 0.3 meters from the projected geometry of the EUT on the ground reference plane.

6.8.4 TEST RESULTS

EUT:	HOTMELT GLUEGUN	Model Name:	HB-01
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2025-12-05
Test Mode:	Mode 1	Phase :	L
Test Voltage:	AC 230V		

Test Ports (Mode)	Freq. Range MHz)	Field Strength	Perform. Criteria	Results	Judgment
Input/ Output AC. Power Port	0.15 ---230	3V(rms) AM Modulated 1000Hz, 80%	A	A	PASS
Input/ Output DC. Power Port	0.15 ---230		A	N/A	N/A
Signal Line	0.15 ---230		A	N/A	N/A

Note:

- 1)N/A - denotes test is not applicable in this Test Report.
- 2)Criteria A: There was no change operated with initial operating during the test.
- 3)Criteria B: The EUT function loss during the test, but self-recoverable after the test.
- 4)Criteria C: The system shut down during the test.

6.9 VOLTAGE INTERRUPTION/DIPS TESTING

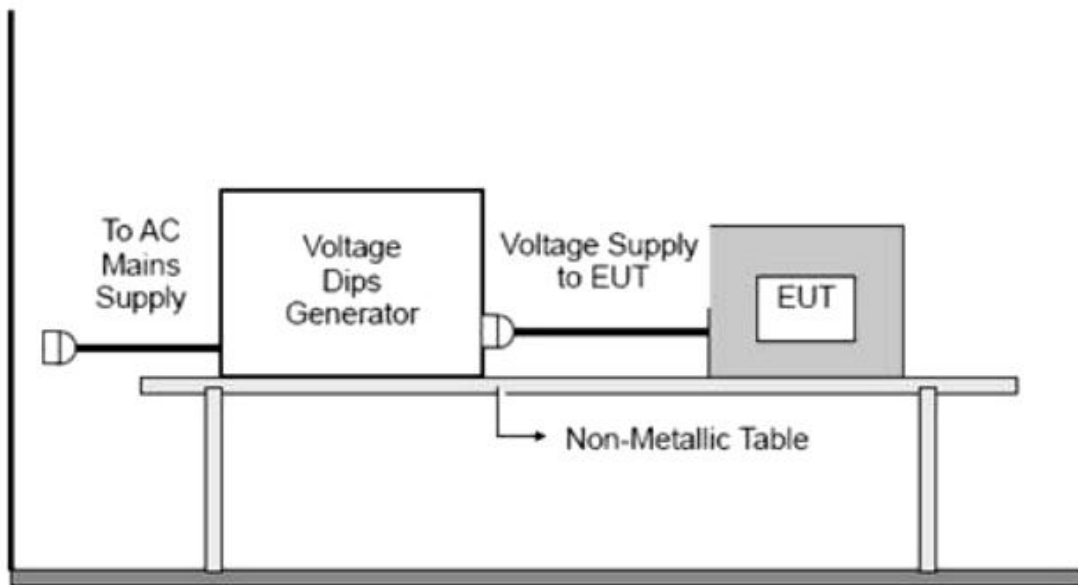
6.9.1 TEST SPECIFICATION

Basic Standard:	IEC/EN IEC 61000-4-11
Interruption & Dips:	C (For 0% Voltage Dips) C (For 40% Voltage Dips) C (For 70% Voltage Dips)
Test Duration Time:	Minimum three test events in sequence
Interval between Event:	Minimum ten seconds
Phase Angle:	0°/45°/90°/135°/180°/225°/270°/315°/360°
Test Cycle:	3 times

6.9.2 TEST PROCEDURE

The EUT shall be tested for each selected combination of test levels and duration with a sequence of three dips/interruptions with intervals of 10 s minimum (between each test event). Each representative mode of operation shall be tested. Abrupt changes in supply voltage shall occur at zero crossings of the voltage waveform.

6.9.3 TEST SETUP



6.9.4 TEST RESULTS

EUT:	HOTMELT GLUEGUN	Model Name:	HB-01
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2025-12-05
Test Mode:	Mode 1	Phase :	L
Test Voltage:	AC 230V		

Interruption & Dips	Duration (ms)	Perform Criteria	Results	Judgment
Voltage dip 0%	10	C	B	Pass
Voltage dip 40%	200	C	B	Pass
Voltage dip 70%	500	C	C	Pass

Note:

- 1)N/A - denotes test is not applicable in this test report.
- 2)Criteria A: There was no change operated with initial operating during the test.
- 3)Criteria B: The EUT function loss during the test, but self-recoverable after the test.
- 4)Criteria C: The system shut down during the test.

7 EUT Constructional Details (EUT Photos)

Photo 1



Photo 2



Photo 3



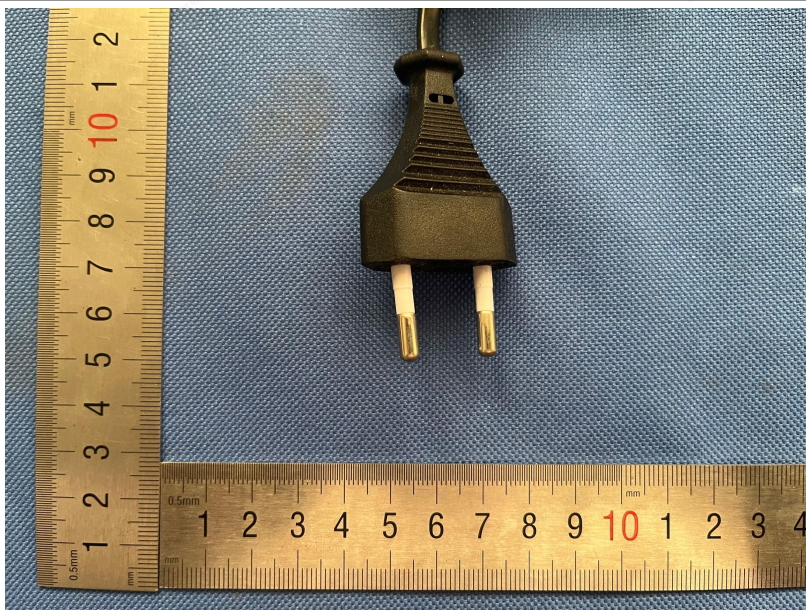
Photo 4



Photo 5



Photo 6





Shenzhen CID Testing Technology Co., Ltd.

B124-126, 1/F, Area B, Co-Talent Creative Wisdom Park, No. 18, Shangliao Industrial Road,
Xinqiao Sub-district, Shajing Town, Baoan District, Shenzhen, Guangdong Province, China.

Tel: +86-755-85252582

Fax: cid@cid-test.com

<http://www.cid-test.com>

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