



# TEST REPORT

For

Guangzhou DuroWelder Limited  
PORTABLE INDUCTION HEATER

KIA-1.1KWPlus

Other models see the list on Page 3 of the report

Guangzhou DuroWelder Limited

Prepared for: No.76, Chuangyu Road, Xintang Street, Zengcheng District, Guangzhou  
City 511358

Shenzhen EZT Testing Technology Co.,Ltd

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Report Number: EZT20230828423ER

Date of Test: Aug.20,2023-Aug.28,2023

Date of Issue: Aug.28,2023

Tested By

Mark Dan

Approved By

Steven



*The results detailed in this test report relate only to the specific sample(s) tested. It is the Application's responsibility to ensure that all production units are manufactured with equivalent EMC characteristics. This report is not to be reproduced except in full, without written approval from EZT Testing Technology.*



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Report No.: EZT20230828423ER

## 1.0 General Information

### 1.1 Client Information

Application:	Guangzhou DuroWelder Limited
Address of Application:	No.76, Chuangyu Road, Xintang Street, Zengcheng District, Guangzhou City 511358
Manufacturer:	Guangdong DuroPower Industries Limited
Address of Manufacturer:	Durowelder Industrial Zone, Huzhen Street, Boluo District 516139, Huizhou City, China

### 1.2 General Description of E.U.T.

Product Name:	PORTABLE INDUCTION HEATER
Model:	KIA-1.1KW Plus
Additional Model:	KIA-1KW, KIA-1.2KW, DW-1KW, DW-1.1KW, DW-1.2KW, DW-1.5KW, DW-1.8KW, DW-2KW, DW-5KW, DW-7KW, DH-18KW, DH-25KW, DIH-1.5KW, DIH-1.75KW, DIH-2KW, DIH-3.5KW, DIH-5KW, DIH-15KW, SIH-3KW, SIH-4KW, KIH-15KVA, KIH-25KVA, KIH-30KVA, KIH-40KVA, KIH-60KVA, KIH-80KVA
Trade Mark:	DuroPower, DuroWelder
Power Supply:	230-240V~ 50/60Hz 1100W
Remark:	--

Model Difference:	N/A
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### 1.3 Test Facility:

Name of Test Lab:	Shenzhen EZT Testing Technology Co.,Ltd
Address of Test Lab:	3F, Building B, Weicheng Industrial Park, No.16 Nanhuan Road, Matian Street, Guangming District, Shenzhen City, Guangdong Province, China.
Telephone:	+86-0755-33150178
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2.0 List Test Equipments					
Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
Conducted emission					
EMI Test Receiver	ESCS30	100139	R&S	Oct. 22, 2022	Oct. 21, 2023
LISN	LS16C	16010222119	AFJ	Oct. 22, 2022	Oct. 21, 2023
Absorption power clamp	ZN23201	0811	Da Ze technology	Oct. 22, 2022	Oct. 21, 2023
Radiated emission					
EMI Test Receiver	ESCS30	100139	R&S	Oct. 22, 2022	Oct. 21, 2023
Spectrum Analyzer	FSEM	1079.8500.30	R&S	Oct. 22, 2022	Oct. 21, 2023
Amplifier	8447D	2727A05017	H.P.	Oct. 22, 2022	Oct. 21, 2023
Antenna	VULB9163	N/A	SCHWARZBECK	Oct. 22, 2022	Oct. 21, 2023
Amplifier	EM30265	07032613	EM Electronics Corporation	Oct. 22, 2022	Oct. 21, 2023
Positioning Controller	CC-C-1F	MF7802140	C & C LAB	Oct. 22, 2022	Oct. 21, 2023
Harmonic & Flicker					
Harmonics Flicker Test System	PACS-1	72305	CI	Oct. 22, 2022	Oct. 21, 2023
5K VA AC Power source	5001iX	56060	CI	Oct. 22, 2022	Oct. 21, 2023
Electrostatic Discharge					
Electostatic Discharge Generator	ESD61002AG	PR12092502	Prima	Oct. 22, 2022	Oct. 21, 2023
Continuous radiated disturbances					
Signal Generator	2022D	119246/003	Maconi	Oct. 22, 2022	Oct. 21, 2023
Power Amplifier	A00181-1000	9801-112	M2S	Oct. 22, 2022	Oct. 21, 2023
Power Amplifier	AC8113/ 800-250A	9801-179	M2S	Oct. 22, 2022	Oct. 21, 2023
Power Antenna	CBL6140A	1204	SCHAFFNER	Oct. 22, 2022	Oct. 21, 2023
EFT/Surge/Dip					
Fast Transient Burst Simulator	EFT61004BG	PR12074375	Prima	Oct. 22, 2022	Oct. 21, 2023
Lightning Surge Generator	SUG61005BG	PR12125534	Prima	Oct. 22, 2022	Oct. 21, 2023
CYCLE SAG SIMULATOR	DRP61011AG	PR12106201	Prima	Oct. 22, 2022	Oct. 21, 2023
Continuous conducted disturbances					



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Signal Generator	2022D	119246/003	Maconi	Oct. 22, 2022	Oct. 21, 2023
Power Amplifier	A00181-1000	9801-112	M2S	Oct. 22, 2022	Oct. 21, 2023
CDN	M3-8016	003683	MEB	Oct. 22, 2022	Oct. 21, 2023
Power-frequency Magnetic field					
Continuous Wave Simulator	UCS 500 M4	0304-42	EM TEST	Oct. 22, 2022	Oct. 21, 2023
Power Source Network	MV 2616	0104-14	EM TEST	Oct. 22, 2022	Oct. 21, 2023
Current Transformer	MC2630	--	EM TEST	Oct. 22, 2022	Oct. 21, 2023
Magnetic Coil	MS100	0304-42	EM TEST	Oct. 22, 2022	Oct. 21, 2023

N/A=not applicable

### 3.0 Technical Details

#### 3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] & Electromagnetic Susceptibility [EMS] tests for CE Marking

#### 3.2 Test Standards

EN IEC55014-1:2021	Electromagnetic compatibility- Requirements for household appliances, electric tools and similar apparatus. Part 1: Emission
EN IEC 61000-3-2:2019 +A1:2021	Electromagnetic compatibility(EMC)- Part 3-2:Limits-Limits for harmonic current emissions(equipment input current $\leq 16A$ per phase)
EN 61000-3-3:2013+A1:2019 +A2:2021	Electromagnetic compatibility (EMC)- Part 3-3:Limits-Limitation of voltage changes, Voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current $\leq 16A$ per phase and not subject to conditional connection
EN IEC55014-2:2021	Electromagnetic compatibility- Requirements for household appliances, electric tools and similar apparatus. Part 2: Immunity-Product family standard

#### 3.3 Performance Criteria

- 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 specified by the manufacturer. The minimum level may be instead of that, either being 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 specified by the manufacturer. During the test, degradation of performance is allowed, however, no change of actual operating state or stored data is allowed. The minimum level may be instead of that, either being 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 instruction for use.

For further performance criteria details, please refer to Table 14 in EN 55014-2.



## 3.4 Test standards and Results Summary Tables

Test Condition	Test Requirement	Test Method	Test Result
<b>EMISSION Results Summary</b>			
Conducted Emission on AC Mains, 150KHz to 30MHz	EN IEC55014-1:2021	EN IEC55014-1:2021	Pass
Disturbance Power Test, 30 MHz to 300MHz	EN IEC55014-1:2021	EN IEC55014-1:2021	Pass
Radiated Emissions, 30MHz to 1000MHz	EN IEC55014-1:2021	EN IEC55014-1:2021	Pass
Harmonic Emissions on AC supply	EN IEC 61000-3-2:2019+A1:2021	EN IEC 61000-3-2:2019+A1:2021	Pass
Voltage fluctuations on AC supply	EN 61000-3-3:2013+A1:2019 +A2:2021	EN 61000-3-3:2013+A1:2019 +A2:2021	Pass
<b>IMMUNITY Results Summary</b>			
Electrostatic Discharge	EN IEC55014-2:2021	EN 61000-4-2: 2009	Pass
RF field strength susceptibility	EN IEC55014-2:2021	EN 61000-4-3: 2010	Pass
Electrical Fast transients /Burst Immunity	EN IEC55014-2:2021	EN 61000-4-4:2004+A1:2010	Pass
Surge	EN IEC55014-2:2021	EN 61000-4-5: 2006	Pass
Conducted susceptibility	EN IEC55014-2:2021	EN 61000-4-6: 2009	Pass
Dips/Voltage Interruption Variation	EN IEC55014-2:2021	EN 61000-4-11: 2004	Pass

Note: N/A=Not applicable

## 3.5 Measurement Uncertainty (95% confidence levels, k=2)

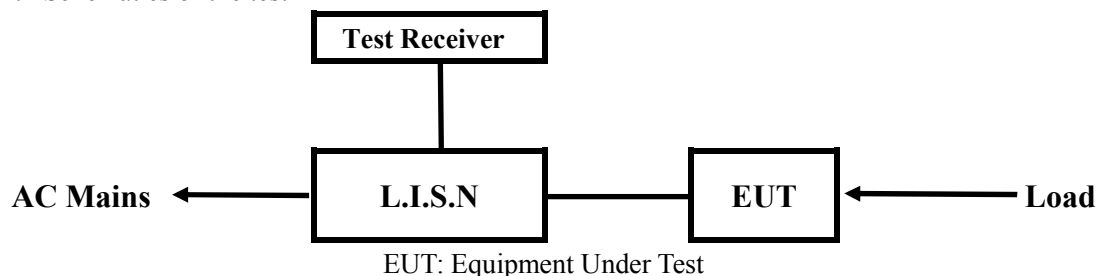
No.	Item	MU
1.	Temperature	$\pm 0.1^{\circ}\text{C}$
2.	Humidity	$\pm 1.0\%$
3.	Spurious emissions, conducted	$\pm 3.70\text{dB}$
4.	All emissions, radiated	$\pm 4.50\text{dB}$



#### 4.0 Electromagnetic Interference Test results

##### 4.1 Power Line Conducted Emission Test

###### 4.1.1 Schematics of the test



###### 4.1.2 Test Method and test Procedure

The test was performed in accordance with EN 55014-1

###### 4.1.3 Test Equipment

Please refer to the Section 2

###### 4.1.4 Power line conducted Emission Limit

Frequency(MHz)	Limits dB( $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	59.0~46.0*
0.50 ~ 5.00	56.0	46.00
5.00 ~ 30.00	60.0	50.00

- Notes:
1. \*decreasing linearly with logarithm of frequency.
  2. The lower limit shall apply at the transition frequencies

###### 4.1.5 Photo documentation of the test set-up

Please refer to the Section 7

###### 4.1.6 Test specification:

Environmental conditions: Temperature: 23° C Humidity: 50% Atmospheric pressure: 103kPa

Frequency range: 0.15 MHz – 30 MHz

###### 4.1.7 Test result

Min. limit margin > 10dB from 0.15 MHz-30 MHz

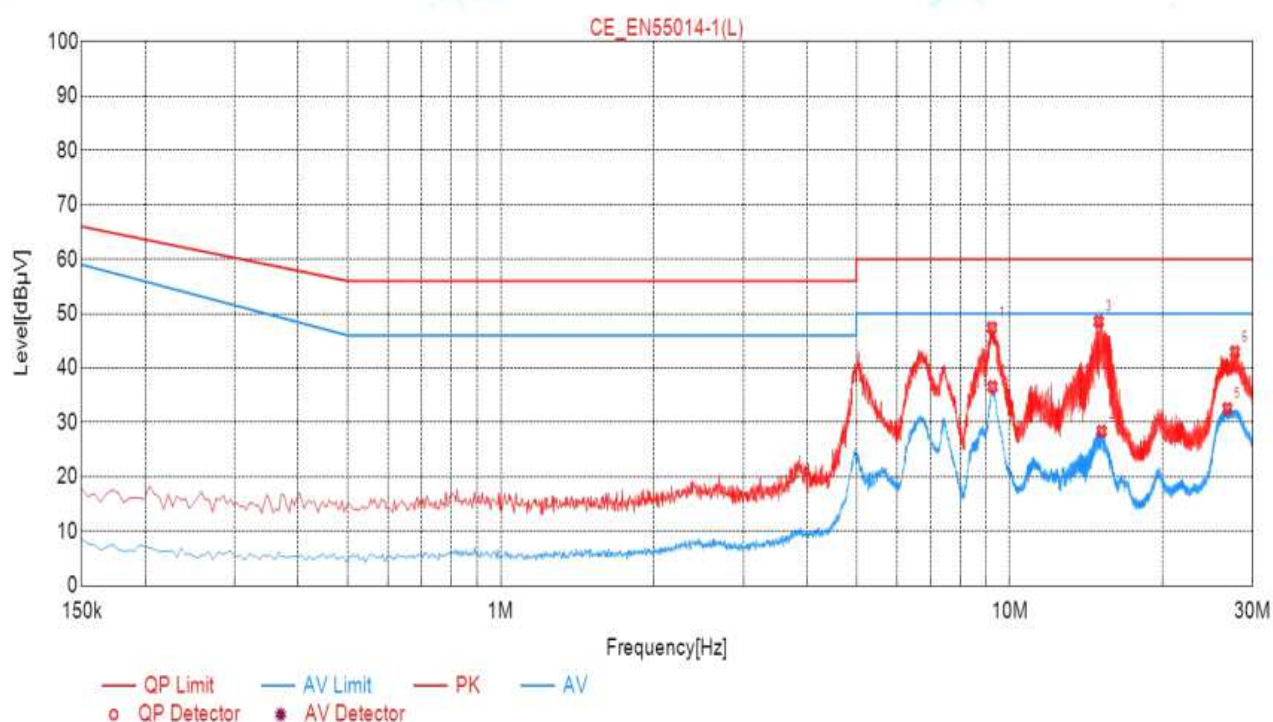


## A Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)

EUT Description: PORTABLE INDUCTION HEATER

Operation Mode: Normal operation mode

Test Result: PASS



## Data List

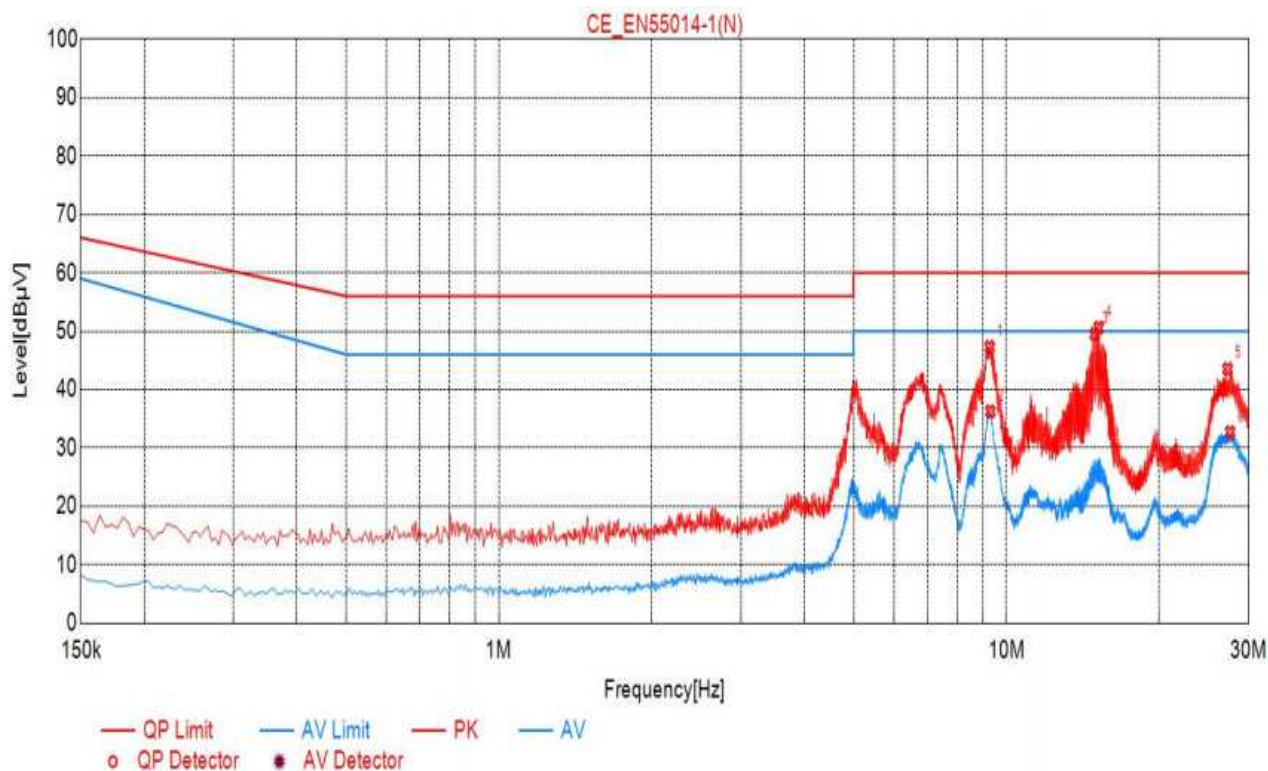
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Detector	Verdict
1	9.236	47.40	11.08	60.00	12.60	PK	PASS
2	9.258	36.57	11.08	50.00	13.43	AV	PASS
3	14.973	48.54	11.08	60.00	11.46	PK	PASS
4	15.176	28.36	11.08	50.00	21.64	AV	PASS
5	26.790	32.54	11.08	50.00	17.46	AV	PASS
6	27.722	42.96	11.08	60.00	17.04	PK	PASS

## B Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT Description: PORTABLE INDUCTION HEATER

Operation Mode: Normal operation mode

Test Result: PASS



## Data List

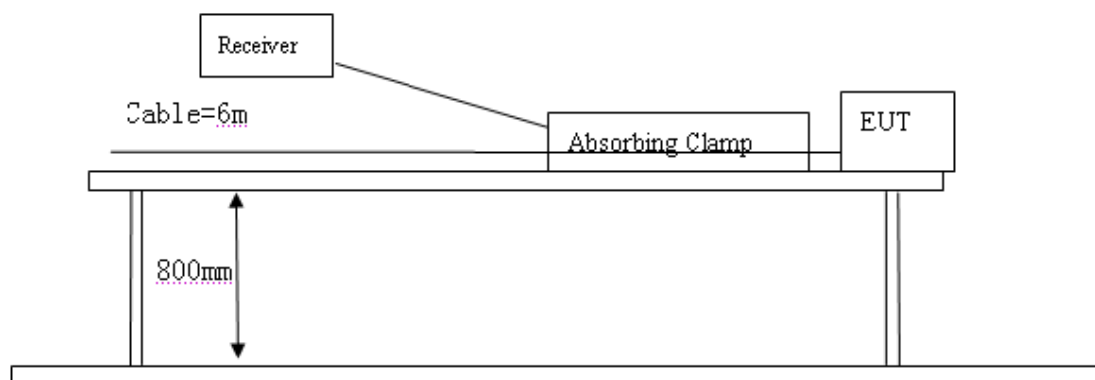
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Detector	Verdict
1	9.276	47.29	11.08	60.00	12.71	PK	PASS
2	9.303	36.25	11.08	50.00	13.75	AV	PASS
3	14.937	49.48	11.08	60.00	10.52	PK	PASS
4	15.207	50.60	11.08	60.00	9.40	PK	PASS
5	27.294	43.50	11.08	60.00	16.50	PK	PASS
6	27.618	32.68	11.08	50.00	17.32	AV	PASS

## 4.2 Disturbance Power Test

### 4.2.1 Test Method:

The test was performed in accordance with EN 55014-1

Block diagram of Test setup



### 4.2.2 Test Equipment

Please refer to the Section 2

### 4.2.3 Power line conducted Emission Limit

Frequency(MHz)	Limits dB(pW)	
	Quasi-peak Level	Average Level
30 ~ 300	45~55	35~45

- Notes:
- \*decreasing linearly with logarithm of frequency.
  - The lower limit shall apply at the transition frequencies

### 4.2.4 Photo documentation of the test set-up

Please refer to the Section 7

### 4.2.5 Test specification:

Environmental conditions: Temperature: 23° C Humidity: 50% Atmospheric pressure: 103kPa

Frequency range: 30 MHz – 300 MHz

### 4.2.6 Test result

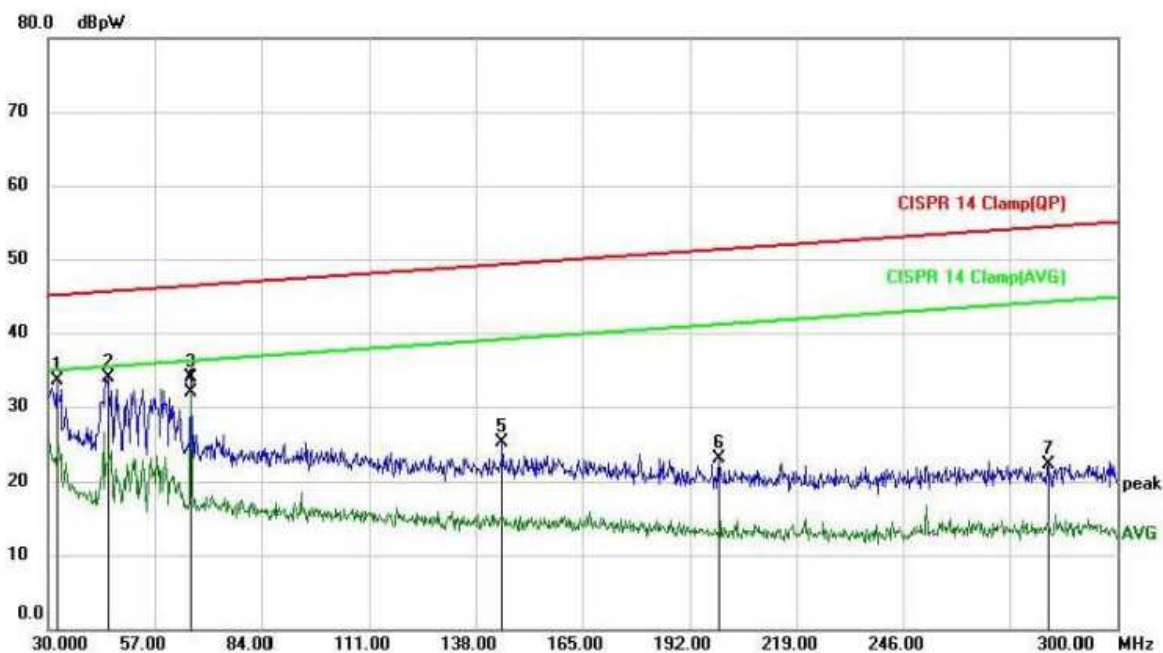
Min. limit margin 7.84dB at 67.4375MHz

### A. Conducted Disturbance Power on AC Line (30MHz to 300MHz)

EUT Description: PORTABLE INDUCTION HEATER

Operation Mode: Normal operation mode

Test Result: PASS

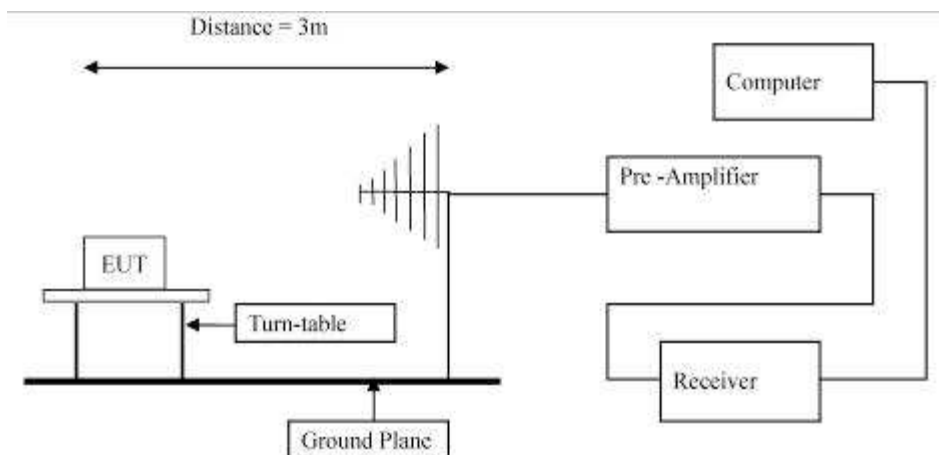


No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Margin dB	Detector	Position cm	Comment
1		32.4000	6.47	27.00	33.47	45.09	-11.62	peak		
2		45.2000	9.04	24.88	33.92	45.56	-11.64	peak		
3		66.3600	10.82	22.99	33.81	46.35	-12.54	peak		
4	*	66.3600	8.84	22.99	31.83	36.35	-4.52	AVG		
5		144.8800	3.26	21.95	25.21	49.25	-24.04	peak		
6		199.4000	3.05	20.10	23.15	51.27	-28.12	peak		
7		282.9200	1.24	21.03	22.27	54.37	-32.10	peak		

### 4.3 Radiated Emission Test

4.3.1 Test Method: The test was performed in accordance to EN 55014-1

#### 4.3.2 Block diagram of Test setup



#### 4.3.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Quasi-Peak limits (dB $\mu$ V/m)
30-230	3	40.00
230-1000	3	47.00

Note: The lower limit shall apply at the transition frequencies

#### 4.3.4 Photo documentation of the test set-up

Please refer to the Section 7

#### 4.3.5 Test Equipment:

Please refer to the Section 2

#### 4.3.6 Test specification:

Environmental conditions: Temperature 24° C Humidity: 52% Atmospheric pressure: 103kPa

#### 4.3.7 Test result

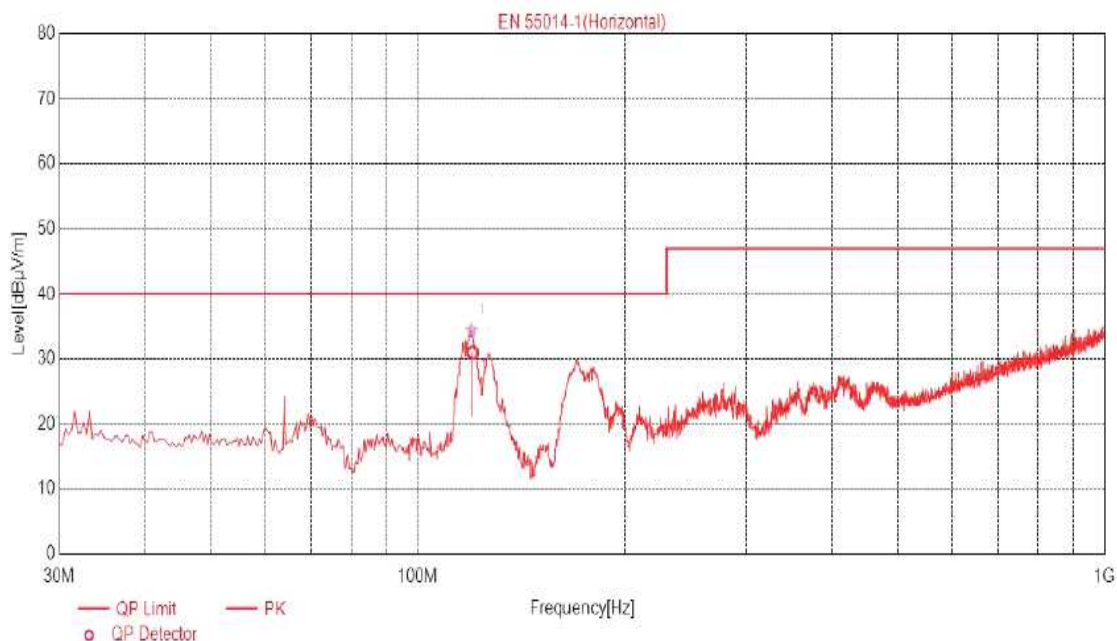
Min. limit margin 5.09dB at 138.8575MHz

Remarks: According to the EN 55014-1





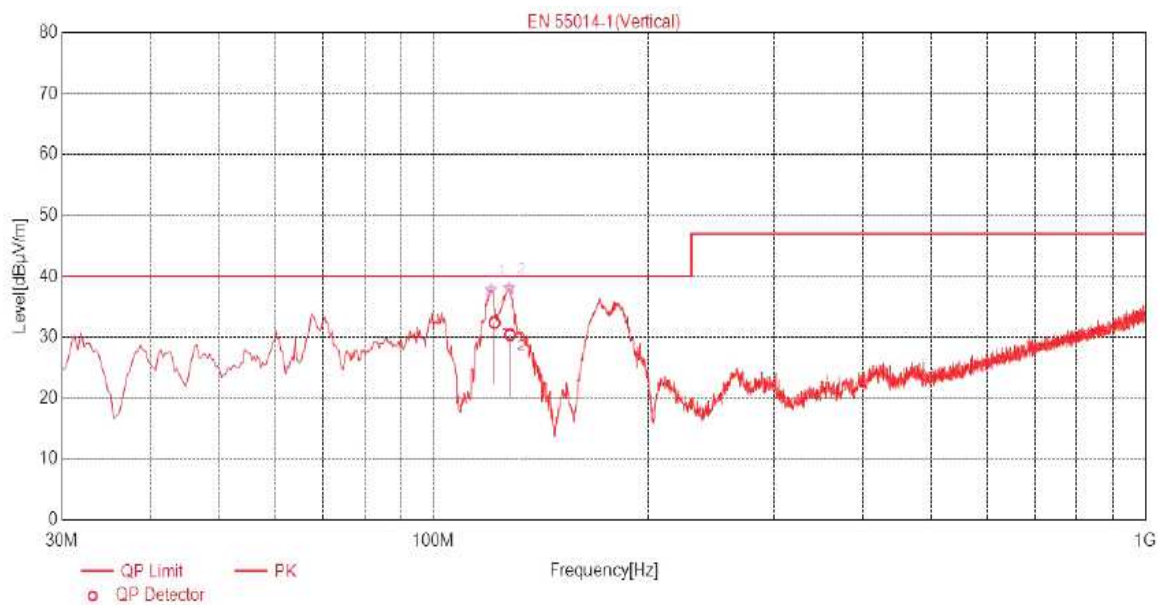
### A. Radiated Emission In Horizontal (30MHz----1000MHz)



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	120.5099	-9.67	31.02	40.00	8.98	275.8	259.3	Horizontal

-The test data shows much less than the limit, no necessary take down the records.

**B. Radiated Emission In Vertical (30MHz----1000MHz)****Final Data List**

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	122.0107	-9.89	32.41	40.00	7.59	111.3	120.3	Vertical
2	128.2487	-10.82	30.41	40.00	9.59	115.5	280.3	Vertical

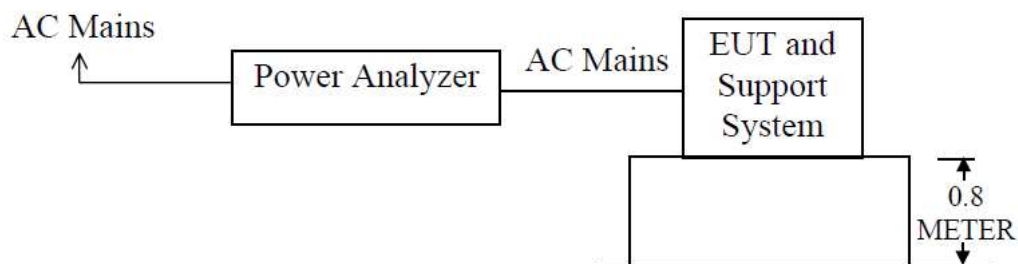


#### 4.4 Harmonic Current Emissions

##### 4.4.1 EUT Operating Mode

Normal operation mode

##### 4.4.2 Block Diagram of Test Setup.



This test was performed as per EMC Basic Standard EN61000-3-2 Class A

##### 4.4.3 Test Equipment

Please refer to Section 2 this report.

##### 4.4.4 Test specification:

Environmental conditions: Temperature: 23° C Humidity: 54% Atmospheric pressure: 103kPa

##### 4.4.5 Results

Port	EUT Operating mode	Result (Passed / Failed)
AC Input	Normal operation mode	Pass

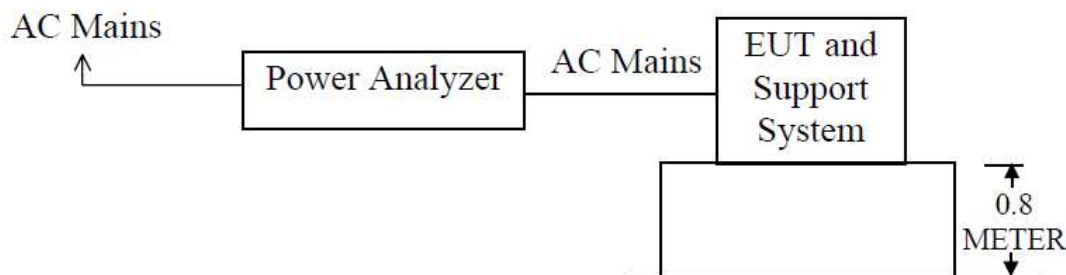


## 4.5 Flicker and Voltage Fluctuation

### 4.5.1 EUT Operating Mode

Normal operation mode

### 4.5.2 Block Diagram of Test Setup.



This test was performed as per EMC Basic Standard EN 61000-3-3

### 4.5.3 Limits of Voltage Fluctuation and Flicks Measurement

Test Item	Limit	Note
$P_{st}$	1.0	Pst means short-term flicker indicator
$P_{lt}$	0.65	Plt means long-term flicker indicator
$T_{dt}$ (ms)	200	Tdt means maximum time that dt exceeds 3%.
$d_{max}$ (%)	4	Dmax means maximum relative voltage change.
dc (%)	3	Dc means relative steady-state voltage change.

### 4.5.4 Test Equipment

Please refer to Section 2 this report.

### 4.5.5 Test specification:

Environmental conditions: Temperature: 23° C Humidity: 54% Atmospheric pressure: 103kPa

#### Parameter values recorded during the test:

Vrms at the end of test (Volt): 229.92

T-max (mS): 0

Highest dc (%): 0.00

Highest dmax (%): 0.00

Highest Pst (10 min. period): 0.064

Test limit (mS): 500.0 Pass

Test limit (%): 3.30 Pass

Test limit (%): 4.00 Pass

Test limit: 1.000 Pass

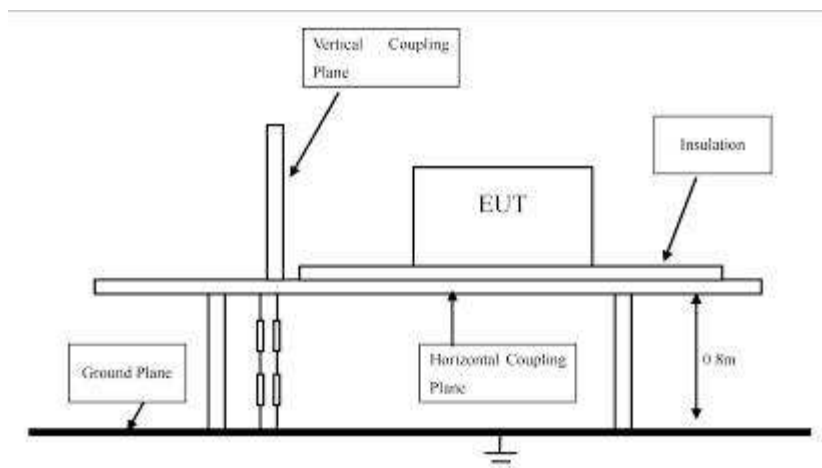
### 4.5.6 Results

Port	EUT Operating mode or operating mode no.	Result (Passed / Failed)
AC Input	Normal operation mode	Pass

## 5.0 Immunity Test

### 5.1 Electrostatic Discharge

#### 5.1.1 Schematic of the test



#### 5.1.2 Test method

The test was performed in accordance with EN 61000-4-2

#### 5.1.3 Test severity

$\pm 4\text{kV}$  for direct & in-direct Contact Discharge

$\pm 8\text{kV}$  for air Discharge

Performance Criterion Require: **B**

#### 5.1.4 Test Equipment

Please refer to Section 2 this report.

#### 5.1.5 Test specification:

Environmental conditions: Temperature:  $23^{\circ}\text{C}$  Humidity: 54% Atmospheric pressure: 103kPa

5.1.6 Operation mode: Normal operation mode

5.1.7 Discharge location

- HCP
- VCP
- Shell

5.1.8 Test Result Pass

## 5.2 RF field strength susceptibility (80MHz----- 1000MHz)

### 5.2.1 Test Method:

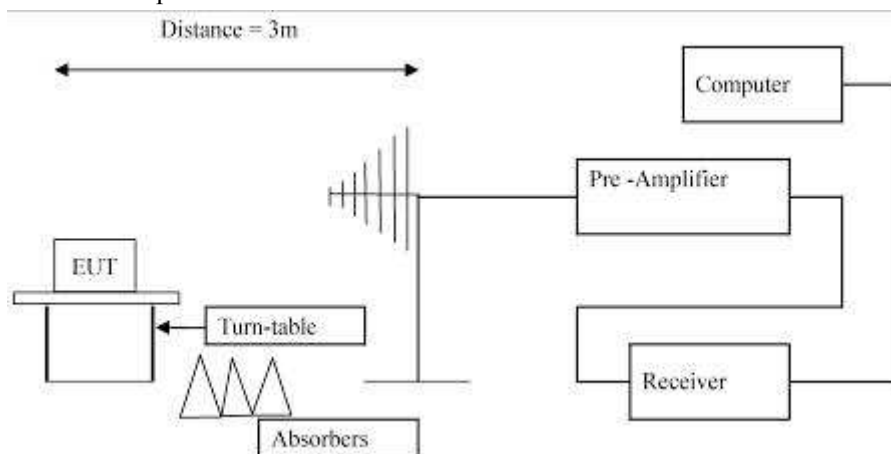
The test was performed in accordance with EN 61000-4-3

Severity: Level 2 (3V/m)

Modulation: 1 KHz 80% AM

Performance Criterion Require: A

Block diagram of Test setup



### 5.2.2 Test Equipment

Please refer to Section 2 this report.

### 5.2.3 Test specification:

Environmental conditions: Temperature: 23° C Humidity: 54% Atmospheric pressure: 103kPa

### 5.2.4 Operation mode: Normal operation mode

### 5.2.5 Test Result:

Please refer to the following table for individual results.

Frequency (MHz)	Radiation to	Polarity	Level (V/m)	Dwell Time(s)	Sweep Rate (%)	Results
80-1000	Front	Horizontal	3	1	1	Pass
80-1000	Rear	Horizontal	3	1	1	Pass
80-1000	Left	Horizontal	3	1	1	Pass
80-1000	Right	Horizontal	3	1	1	Pass
80-1000	Front	Vertical	3	1	1	Pass
80-1000	Rear	Vertical	3	1	1	Pass
80-1000	Left	Vertical	3	1	1	Pass
80-1000	Right	Vertical	3	1	1	Pass

### 5.3 Electrical Fast Transient/Burst (EFT/B) immunity test

#### 5.3.1 Schematics of the test



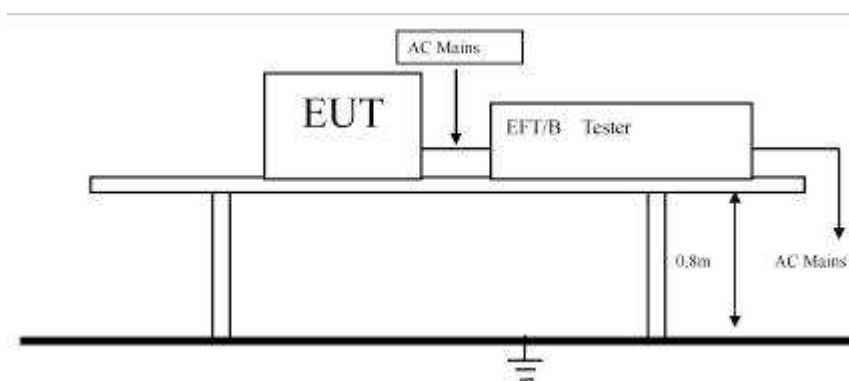
#### 5.3.2 Test Method

The test was performed in accordance with EN 61000-4-4

Severity: Level 2 (1kV)

Performance Criterion Require: **B**

Block diagram of Test setup



#### 5.3.3 Test Equipment

Please refer to Section 2 this report.

#### 5.3.4 Test specification:

Environmental conditions: Temperature: 22° C Humidity: 54% Atmospheric pressure: 103kPa

#### 5.3.5 Operation mode: Normal operation mode

#### 5.3.6 Test Results

Inject location: AC mains

Inject Line	Voltage kV	Inject Times (s)	Method	Results
L	± 1	120	Direct	Pass
N	± 1	120	Direct	Pass
L、N	± 1	120	Direct	Pass
E	± 1	120	Direct	Pass
L、E	± 1	120	Direct	Pass
N、E	± 1	120	Direct	Pass
L、N、E	± 1	120	Direct	Pass

## 5.4 Surge test

### 5.4.1 Schematics of the test



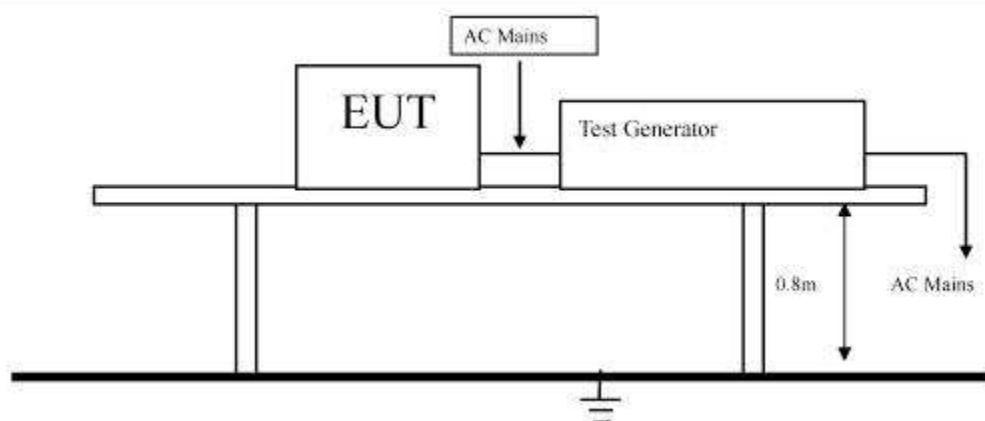
### 5.4.2 Test Method:

The test was performed in accordance with BS EN 61000-4-5

Severity: Level 2

Performance Criterion Require: B

Block diagram of Test setup



### 5.4.3 Test Equipment

Please refer to Section 2 this report.

### 5.4.4 Test specification:

Environmental conditions: Temperature: 22° C Humidity: 54% Atmospheric pressure: 103kPa

5.4.5 Operation mode: Normal operation mode

### 5.4.6 Test Results

5 pulses for each polarity and test voltage, and repetition rate is 1 per min.

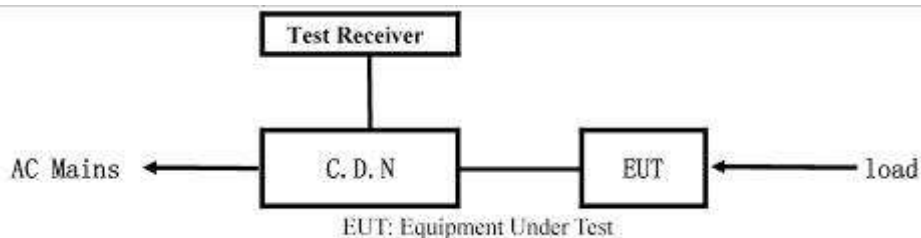
Location	Polarity	0°	90°	180°	270°	Results
L-N	+1 KV	N/A	n.r.r.	N/A	N/A	Pass
	-1 KV	N/A	N/A	N/A	n.r.r.	Pass
L-PE	+2 KV	N/A	n.r.r.	N/A	N/A	Pass
	-2 KV	N/A	N/A	N/A	n.r.r.	Pass
N-PE	+2 KV	N/A	n.r.r.	N/A	N/A	Pass
	-2 KV	N/A	N/A	N/A	n.r.r.	Pass

Remark: 1) n.r.r. = no reaction recognized, N/A = not applicable.

2) Performance Criteria A Observed.

## 5.5 Conducted Immunity test

### 5.5.1 Schematics of the test



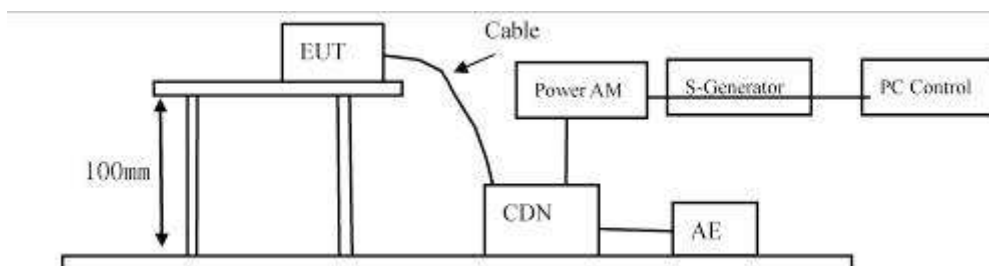
### 5.5.2 Test Method

The test was performed in accordance with BS EN 61000-4-6

Severity: Level 2 (3 V rms),

Performance Criterion Require: A

Block diagram of Test setup



### 5.5.3 Test Equipment

Please refer to Section 2 this report.

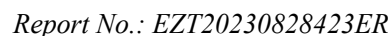
### 5.5.4 Test specification:

Environmental conditions: Temperature: 23° C Humidity: 54% Atmospheric pressure: 103kPa

5.5.5 Operation mode: Normal operation mode

### 5.5.4 Test Results:

Frequency Range (MHz)	Injected Position	Strength	Criterion	Result
0.15 - 80	AC Line	3V (rms) Unmodulated	A	Pass
80-230	AC Line	3V (rms) Unmodulated	A	Pass





## **6.0 CE Label**

### **6.1 label specification**

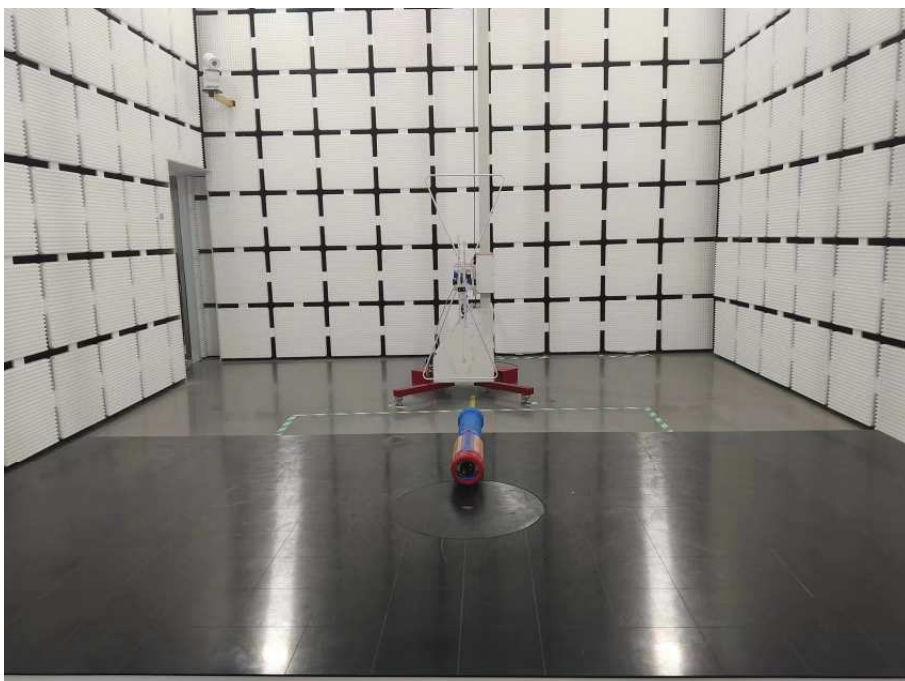
Text of the mark is black or white in color and is left justified. Labels are printed in indelible ink on permanent adhesive backing and shall be affixed at a conspicuous location on the EUT or silk-screened onto the EUT.



### **6.2 Mark Location: On the product body**



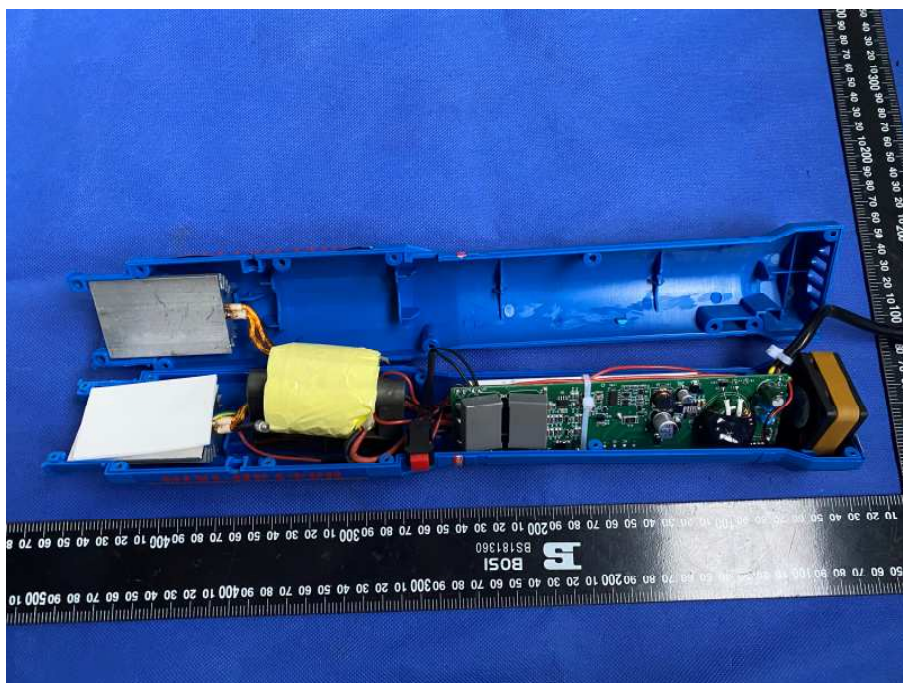
## 7.0 Photos of Testing



## 8.0 Photos of EUT







--End of the report--