



# CE TEST REPORT

for

Battery Charger

Model: FBC1207E

Prepared for: DongGuan Foxsur Electronic Equipment Co., Ltd.  
Hengjiangxia Industrial Zone, ChangPin Tower, DongGuan City,  
GuangDong Province, China

Prepared by: Shenzhen EZT Testing Technology Co.,Ltd  
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Report Number : EZT20230606008ER  
Date of Test : June 02,2023-June 06,2023  
Date of Issue : June 06,2023

Tested By Mark Dan.  
Mark Dan

Approved By Steven  
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.*



## Table of Contents

1.0	General Information .....	3
1.1	Client Information.....	3
1.2	General Description of E.U.T.....	3
1.3	Test Facility.....	3
2.0	List of Measurement Equipment.....	4
3.0	Technical Details.....	6
3.1	Summary of Test Results.....	6
3.2	Test Standards.....	6
3.3	Performance Criteria.....	6
3.4	Test standards and Results Summary Tables.....	7
3.5	Measurement Uncertainty.....	7
4.0	Electromagnetic Interference Test results.....	8
4.1	Power Line Conducted Emission Test.....	8
4.2	Disturbance Power Test.....	11
4.3	Radiated Emission test.....	13
4.4	Harmonic Current Emissions.....	16
4.5	Flicker and Voltage Fluctuation.....	17
5.0	Immunity Test.....	18
5.1	Electrostatic Discharge.....	18
5.2	RF field strength susceptibility.....	19
5.3	Electrical Fast Transient/Burst.....	20
5.4	Surge test.....	21
5.5	Conducted Immunity test.....	22
5.6	Voltage Dips/Interruptions immunity test.....	23
6.0	CE label.....	23
7.0	Photos of the EUT.....	24




## 1.0 General Information

### 1.1 Client Information

Application:	DongGuan Foxsur Electronic Equipment Co., Ltd.
Address of Application:	Hengjiangxia Industrial Zone, ChangPin Tower, DongGuan City, Guangdong Province, China
Manufacturer:	DongGuan Foxsur Electronic Equipment Co., Ltd.
Address of Manufacturer:	Hengjiangxia Industrial Zone, ChangPin Tower, DongGuan City, Guangdong Province, China

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

Product Name:	Battery Charger
Model:	FBC1207E
Additional Model:	N/A
Trade Mark:	FOXSUR
Power Supply:	Input: 100-240V~50/60Hz 90W Output: 12V  7A
Remark:	--

### 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
Fax:	+86-0755-23218109



<b>2.0 List Test Equipments</b>					
Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
<b>Conducted emission</b>					
EMI Test Receiver	ESCS30	100139	R&S	July 22, 2022	July 21, 2023
LISN	LS16C	16010222119	AFJ	July 22, 2022	July 21, 2023
Absorption power clamp	ZN23201	0811	Da Ze technology	July 22, 2022	July 21, 2023
<b>Radiated emission</b>					
EMI Test Receiver	ESCS30	100139	R&S	July 22, 2022	July 21, 2023
Spectrum Analyzer	FSEM	1079.8500.30	R&S	July 22, 2022	July 21, 2023
Amplifier	8447D	2727A05017	H.P.	July 22, 2022	July 21, 2023
Antenna	VULB9163	N/A	SCHWARZBECK	July 22, 2022	July 21, 2023
Amplifier	EM30265	07032613	EM Electronics Corporation	July 22, 2022	July 21, 2023
Positioning Controller	CC-C-1F	MF7802140	C & C LAB	July 22, 2022	July 21, 2023
<b>Harmonic &amp; Flicker</b>					
Harmonics Flicker Test System	PACS-1	72305	CI	July 22, 2022	July 21, 2023
5K VA AC Power source	500iX	56060	CI	July 22, 2022	July 21, 2023
<b>Electrostatic Discharge</b>					
Electostatic Discharge Generator	ESD61002AG	PR12092502	Prima	July 22, 2022	July 21, 2023
<b>Continuous radiated disturbances</b>					
Signal Generator	2022D	119246/003	Maconi	July 22, 2022	July 21, 2023
Power Amplifier	A00181-1000	9801-112	M2S	July 22, 2022	July 21, 2023
Power Amplifier	AC8113/800-250A	9801-179	M2S	July 22, 2022	July 21, 2023
Power Antenna	CBL6140A	1204	SCHAFFNER	July 22, 2022	July 21, 2023
<b>EFT/Surge/Dip</b>					
Fast Transient Burst Simulator	EFT61004BG	PR12074375	Prima	July 22, 2022	July 21, 2023
Lightning Surge Generator	SUG61005BG	PR12125534	Prima	July 22, 2022	July 21, 2023
CYCLE SAG SIMULATOR	DRP61011AG	PR12106201	Prima	July 22, 2022	July 21, 2023
<b>Continuous conducted disturbances</b>					
Signal Generator	2022D	119246/003	Maconi	July 22, 2022	July 21, 2023



Report No.: EZT20230606008ER

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

N/A=not applicable



<b>3.0 Technical Details</b>	
3.1 Investigations Requested	
Perform Electromagnetic Interference [EMI] & Electromagnetic Susceptibility [EMS] tests for CE Marking	
3.2 Test Standards	
EN IEC 55014-1:2021	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 IEC 55014-1:2021	EN IEC 55014-1:2021	Pass
Disturbance Power Test, 30 MHz to 300MHz	EN IEC 55014-1:2021	EN IEC 55014-1:2021	Pass
Radiated Emissions, 30MHz to 1000MHz	EN IEC 55014-1:2021	EN IEC 55014-1:2021	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)

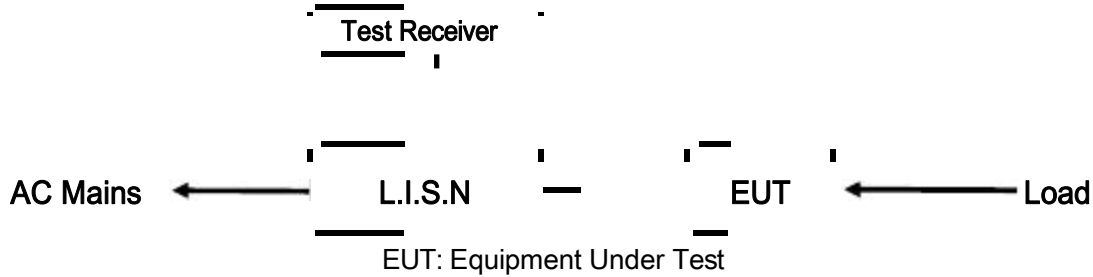
No.	Item	MU
1.	Temperature	±0.1°C
2.	Humidity	± 1.0%
3.	Spurious emissions, conducted	± 3.70dB
4.	All emissions, radiated	±4.50dB



#### 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

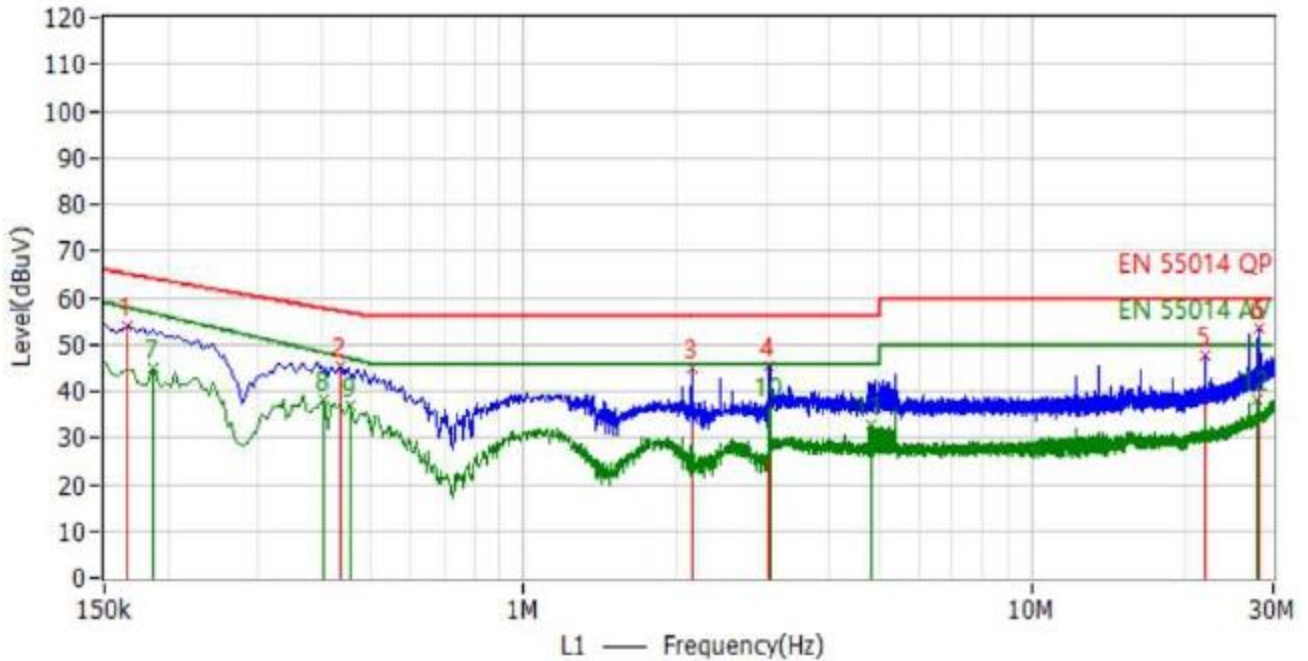
Min. limit margin > 10dB from 0.15 MHz-30 MHz





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

EUT Description: Battery Charger  
 Operation Mode: Normal operation mode  
 Test Result: PASS

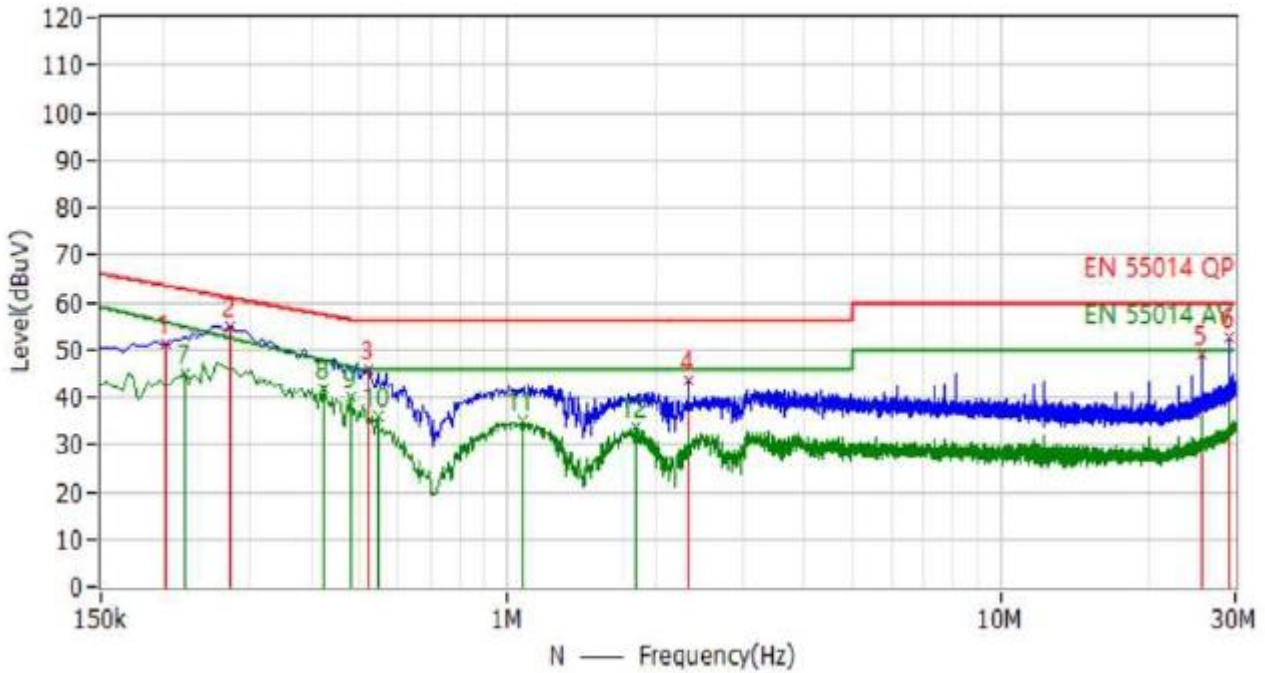


No.	Frequency	Limit dBuV	Level dBuV	Delta dB	Factor dB	Detector	Polar
1*	166.000 kHz	65.2	54.0	-11.1	9.7	PK	L1
2*	434.000 kHz	57.2	45.4	-11.8	9.8	PK	L1
3*	2.142 MHz	56.0	45.1	-10.9	9.9	PK	L1
4*	3.054 MHz	56.0	45.4	-10.6	9.9	PK	L1
5*	22.038 MHz	60.0	47.8	-12.2	10.1	PK	L1
6*	28.270 MHz	60.0	53.7	-6.3	10.1	PK	L1
7*	186.000 kHz	56.7	45.1	-11.5	9.7	AV	L1
8*	406.000 kHz	48.2	38.0	-10.2	9.8	AV	L1
9*	458.000 kHz	46.9	37.0	-9.9	9.8	AV	L1
10*	3.058 MHz	46.0	36.8	-9.2	9.9	AV	L1
11*	4.858 MHz	46.0	32.6	-13.4	10.0	AV	L1
12*	27.834 MHz	50.0	38.3	-11.7	10.1	AV	L1



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

EUT Description: Battery Charger  
 Operation Mode: Normal operation mode  
 Test Result: PASS



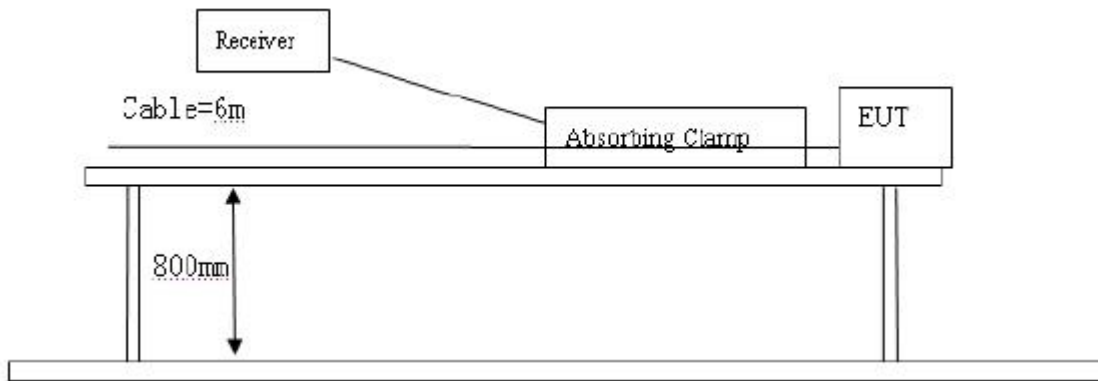
No.	Frequency	Limit dBuV	Level dBuV	Delta dB	Factor dB	Detector	Polar
1*	202.000 kHz	63.5	51.4	-12.1	9.7	PK	N
2*	274.000 kHz	61.0	54.9	-6.1	9.7	PK	N
3*	522.000 kHz	56.0	45.7	-10.3	9.7	PK	N
4*	2.334 MHz	56.0	43.7	-12.3	9.8	PK	N
5*	25.702 MHz	60.0	49.2	-10.8	10.0	PK	N
6*	29.062 MHz	60.0	52.7	-7.3	10.0	PK	N
7*	222.000 kHz	54.8	45.1	-9.6	9.7	AV	N
8*	426.000 kHz	47.7	42.0	-5.7	9.7	AV	N
9*	482.000 kHz	46.4	39.8	-6.6	9.7	AV	N
10*	546.000 kHz	46.0	35.8	-10.2	9.7	AV	N
11*	1.078 MHz	46.0	35.0	-11.0	9.8	AV	N
12*	1.822 MHz	46.0	33.5	-12.5	9.8	AV	N

**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

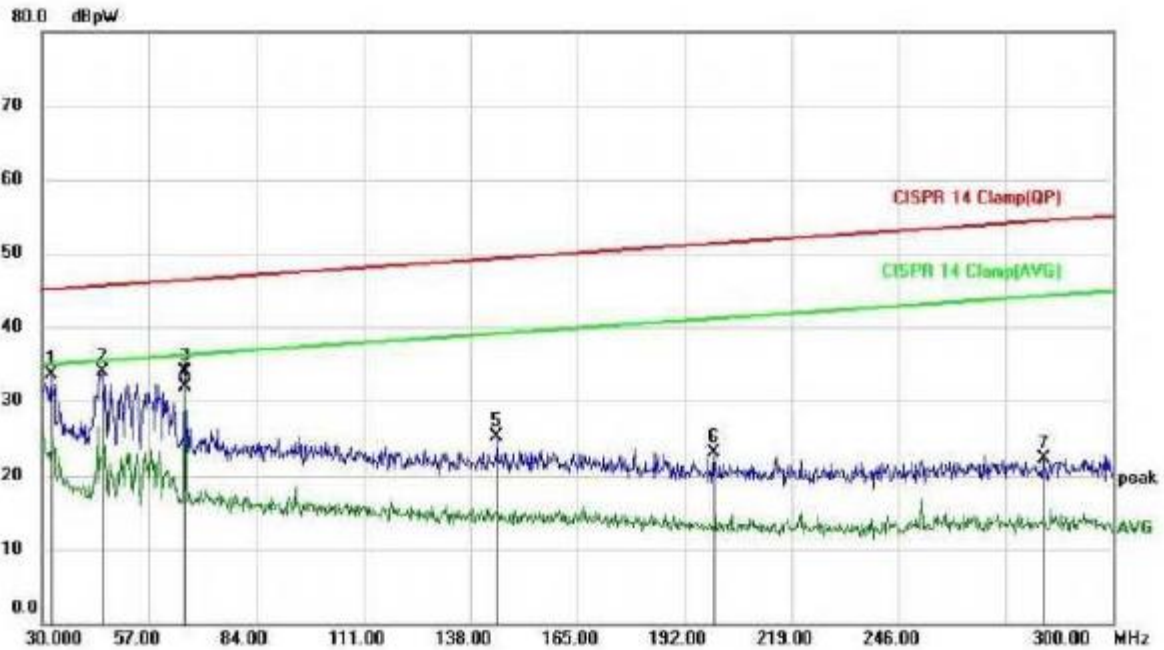
**4.2.6 Test result**

Min. limit margin 7.84dB at 67.4375MHz



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

EUT Description: Battery Charger  
 Operation Mode: Normal operation mode  
 Test Result: PASS

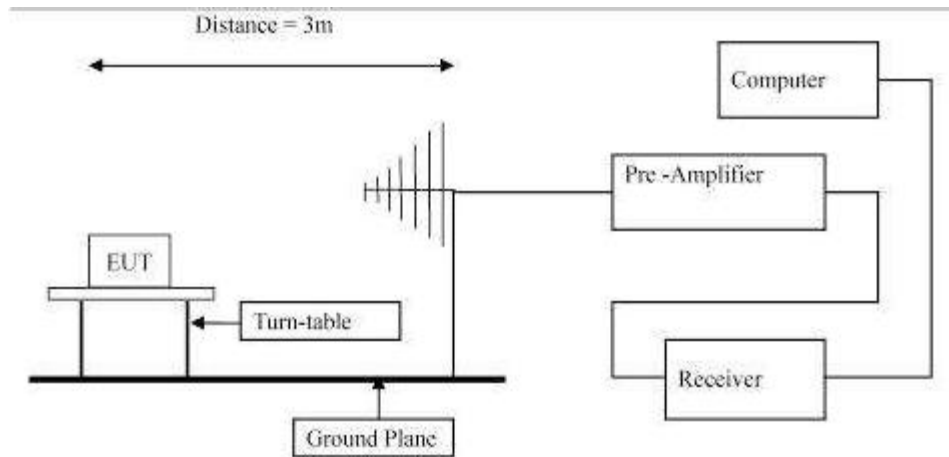


No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Margin dB	Detector	Position	cm	Comment
1		32.4000	6.47	27.00	33.47	45.09	-11.62	peak			
2		45.2000	9.04	24.88	33.92	45.56	-11.64	peak			
3		66.3600	10.82	22.99	33.81	46.35	-12.54	peak			
4	*	66.3600	8.84	22.99	31.83	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)**

EUT Description:

Operation Mode:

Test Result:

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
		H	
		H	

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



**B. Radiated Emission In Vertical (30MHz—1000MHz)**

EUT Description:

Operation Mode:

Test Result:

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
138.8575	34.91	V	40.00

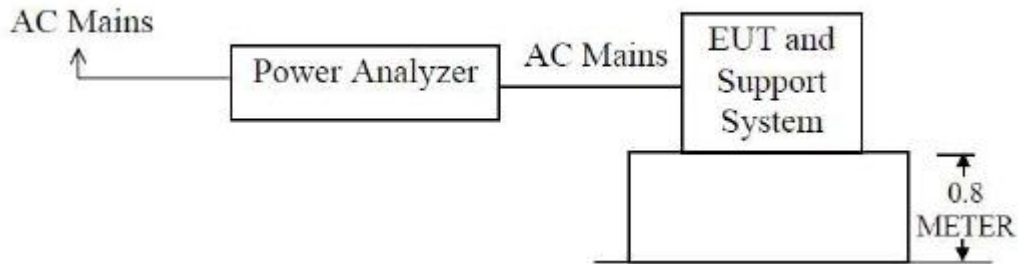


#### 4.4 Harmonic Current Emissions

##### 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



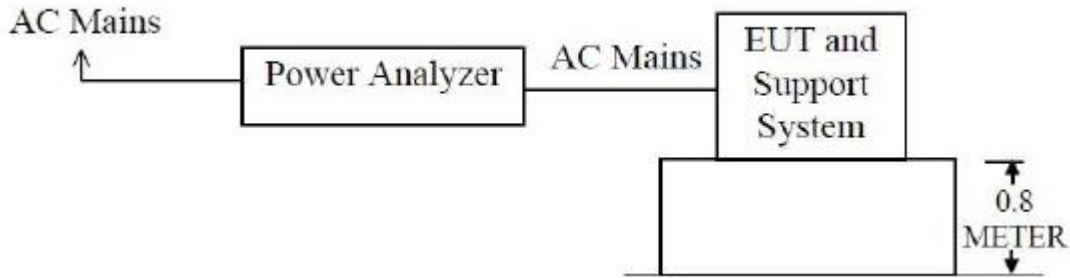


#### 4.5 Flicker and Voltage Fluctuation

##### 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 <sub>st</sub>	1.0	Pst means short-term flicker indicator
P <sub>lt</sub>	0.65	Plt means long-term flicker indicator
T <sub>dt</sub> (ms)	200	Tdt means maximum time that dt exceeds 3%.
d <sub>max</sub> (%)	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:

<b>V<sub>rms</sub> at the end of test (Volt):</b>	<b>229.92</b>			
<b>T-max (mS):</b>	<b>0</b>	<b>Test limit (mS):</b>	<b>500.0</b>	<b>Pass</b>
<b>Highest dc (%):</b>	<b>0.00</b>	<b>Test limit (%):</b>	<b>3.30</b>	<b>Pass</b>
<b>Highest dmax (%):</b>	<b>0.00</b>	<b>Test limit (%):</b>	<b>4.00</b>	<b>Pass</b>
<b>Highest Pst (10 min. period):</b>	<b>0.064</b>	<b>Test limit:</b>	<b>1.000</b>	<b>Pass</b>

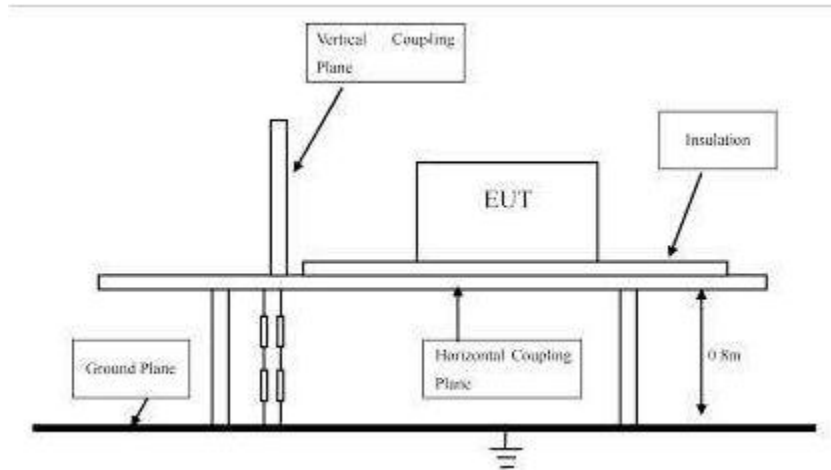
##### 4.5.6 Results

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

±4kV for direct & in-direct Contact Discharge

±8kV 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° 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:**

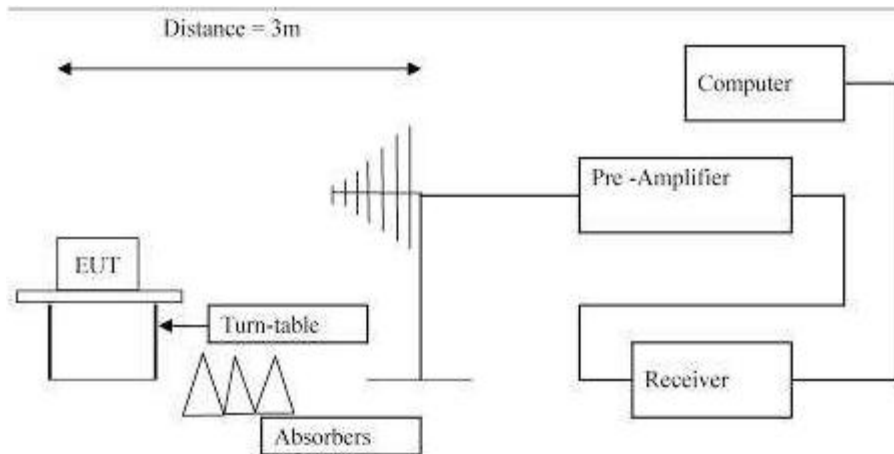
The test was performed in accordance with EN 61000-4-3

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



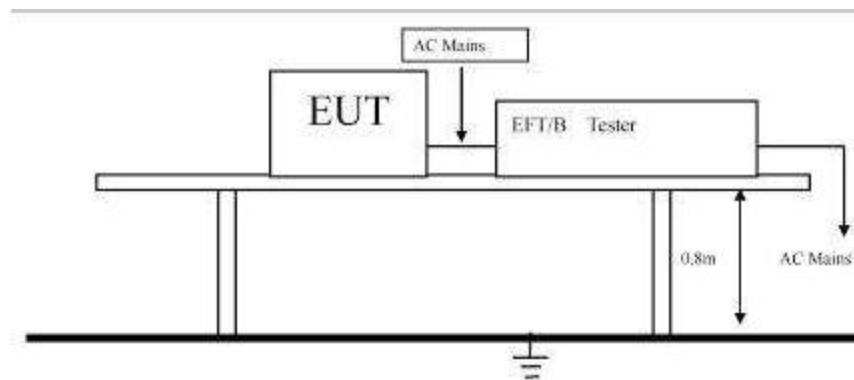
#### 5.3.2 Test Method

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

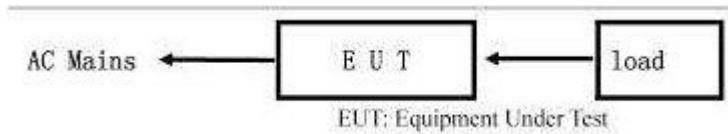
#### 5.3.6 Test Results

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	N/A
L、E	±1	120	Direct	N/A
N、E	±1	120	Direct	N/A
L、N、E	±1	120	Direct	N/A

### 5.4 Surge test

#### 5.4.1 Schematics of the test



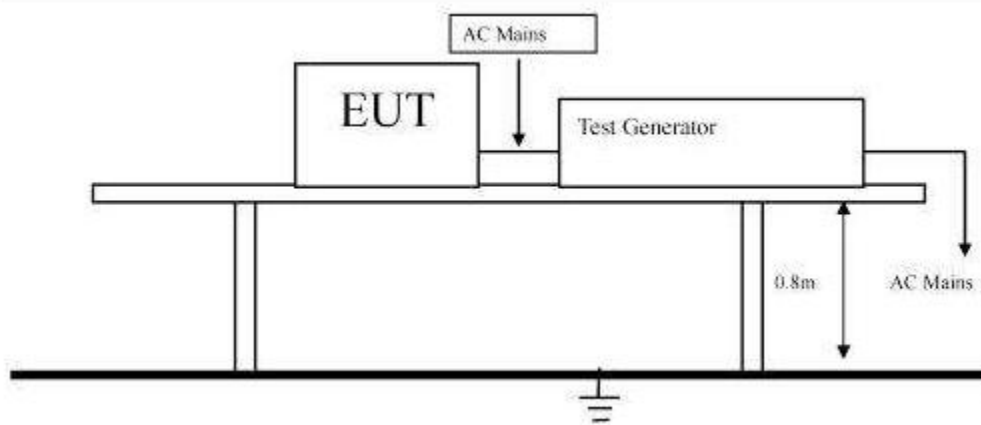
#### 5.4.2 Test Method:

The test was performed in accordance with 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.

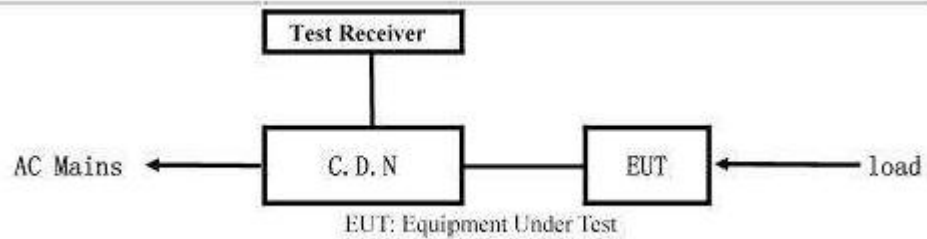
Location	Polarity	0°	90°	180°	270°	Results
L-N	+1 KV	N/A	n.r.r.	N/A	N/A	Pass
	-1 KV	N/A	N/A	N/A	n.r.r.	Pass
L-PE	+2 KV	N/A	n.r.r.	N/A	N/A	N/A
	-2 KV	N/A	N/A	N/A	n.r.r.	N/A
N-PE	+2 KV	N/A	n.r.r.	N/A	N/A	N/A
	-2 KV	N/A	N/A	N/A	n.r.r.	N/A

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**



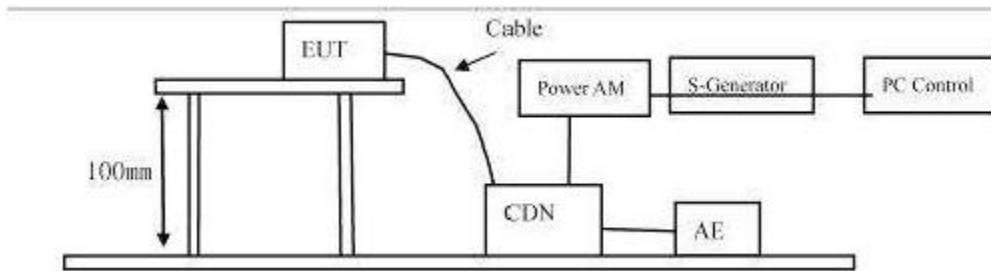
**5.5.2 Test Method**

The test was performed in accordance with 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

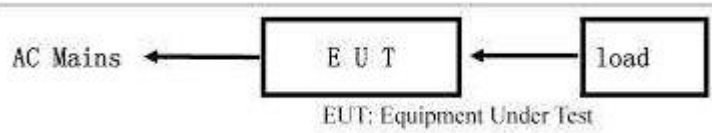
**5.5.4 Test Results:**

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



### 5.6 Voltage Dips/Interruptions immunity test

#### 5.6.1 Schematics of the test

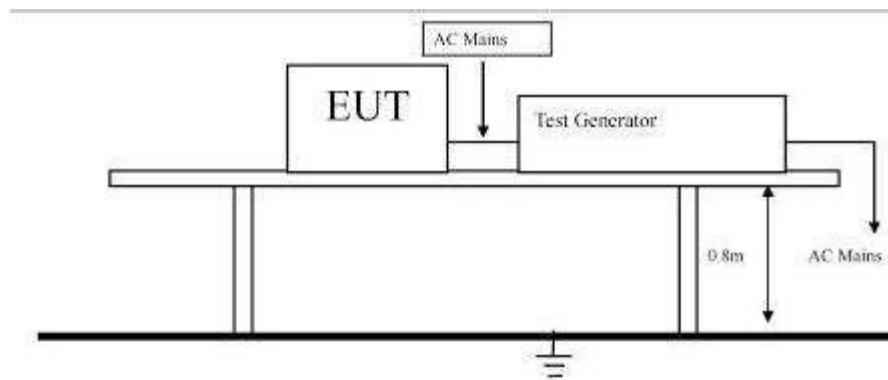


#### 5.6.2 Test Method:

The test was performed in accordance with EN 61000-4-11

Performance Criterion Require: C&B

Block diagram of Test setup



#### 5.6.3 Test Equipment

Please refer to Section 2 this report.

#### 5.6.4 Test specification:

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

5.6.5 Operation mode: Normal operation mode

#### 5.6.6 Test Result:

Test Level % Ut	Voltage dips & short interruptions % Ut	Duration(in period)	Phase Angle	Criterion	Result
50Hz					
0	100	0.5P	0° - 360°	B	Pass
40	60	10P	0° - 360°	C	Pass
70	30	25P	0° - 360°	C	Pass
60Hz					
0	100	0.5P	0° - 360°	B	Pass
40	60	12P	0° - 360°	C	Pass
70	30	30P	0° - 360°	C	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.

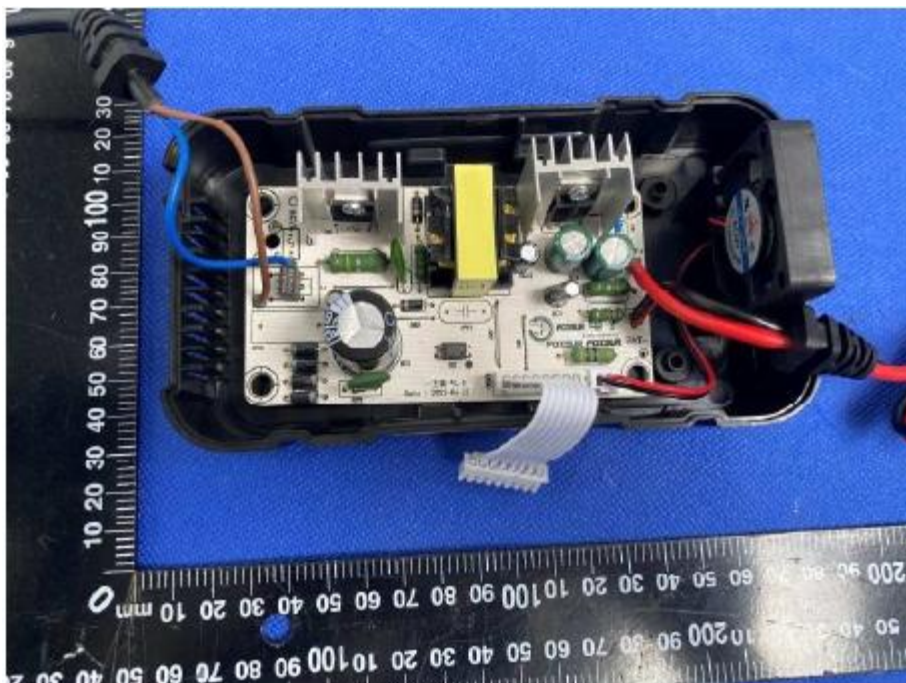


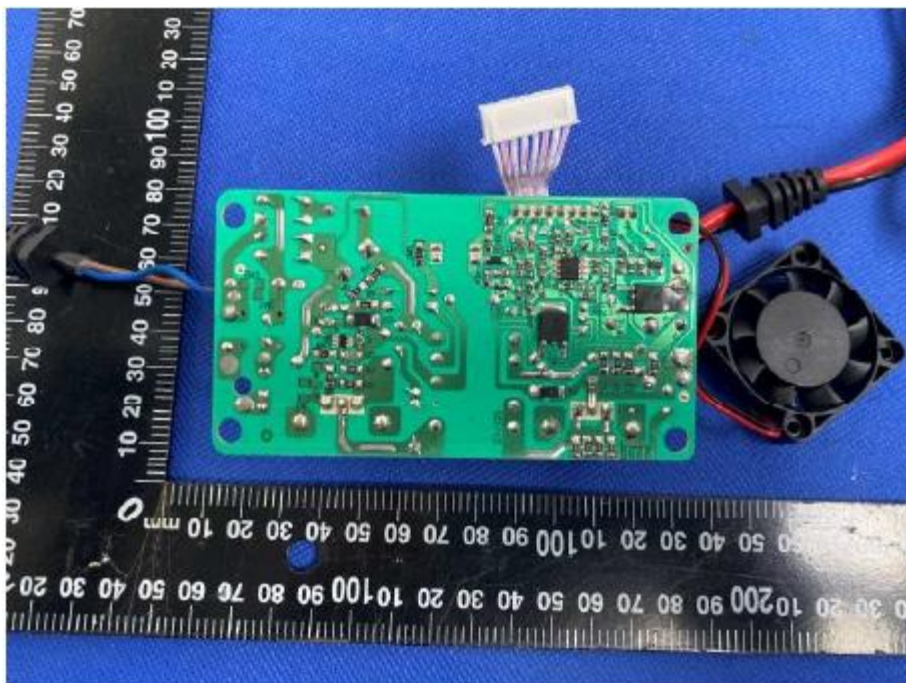
### 6.2 Mark Location: On the product body

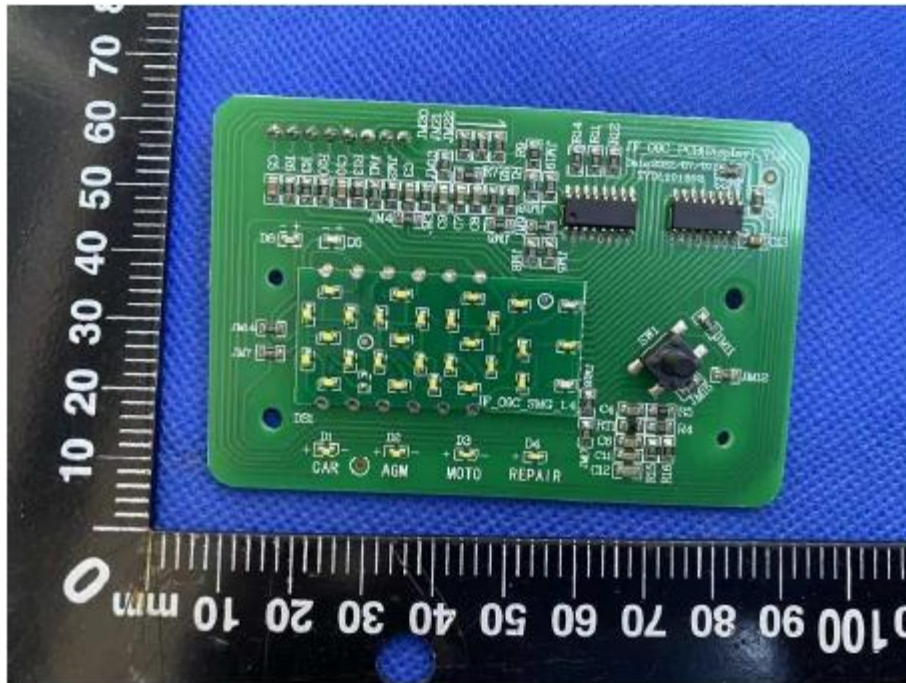


### 7.0 Photos of EUT









--End of the report--