

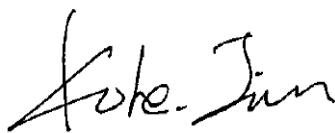
TEST REPORT

Application No.: GZEM2004011519HS
Applicant: Baren Home Appliance Technology (Dongguan) Co., Ltd.
Address of Applicant: No. 151, Niuguo Road, Qiufulu Village, Dalang Town, Dongguan, Guangdong, China
Manufacturer: The same as applicant
Address of Manufacturer: The same as applicant
Factory: The same as applicant
Address of Factory: The same as applicant
Equipment Under Test (EUT):
EUT Name: Air purifier
Model No.: B-C02
Trade Mark: BAREN
Standard(s): EN 55014-1:2017
 EN 55014-2:2015
 EN IEC 61000-3-2:2019
 EN 61000-3-3:2013 +A1:2019
Date of Receipt: 2020-04-11
Date of Test: 2020-04-24 to 2020-05-13
Date of Issue: 2020-06-17

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

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






Kobe Jian
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-06-17		Original

Authorized for issue by:			
Tested By			
	Allen_Zhou /Project Engineer		2020-04-24 to 2020-05-13 Date
Checked By			
	Terry_Lai /Reviewer		2020-06-17 Date



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	EN 55014-1:2017	CISPR 16-2-1	N/A	Pass
Disturbance Power	EN 55014-1:2017	CISPR 16-2-2	N/A	Pass
Harmonic Current Emission	EN IEC 61000-3-2:2019	EN IEC 61000-3-2:2019	Class A	Pass
Voltage Fluctuations and Flicker	EN 61000-3-3:2013 +A1:2019	EN 61000-3-3:2013 +A1:2019	Clause 5 of EN 61000-3-3	Pass

N/A: Not applicable

Immunity Part				
Item	Standard	Method	Requirement	Result
Electrostatic Discharge	EN 55014-2:2015	EN 61000-4-2:2009	4kV Contact Discharge 8kV Air Discharge	Pass
Radiated Immunity (80MHz-1GHz)	EN 55014-2:2015	EN 61000-4-3:2006 +A1:2008+A2:2010	3V/m, 80%, 1kHz Amp. Mod.	Pass
Electrical Fast Transients/Burst at Power Port	EN 55014-2:2015	EN 61000-4-4:2012	1kV 5/50ns Tr/Td 5kHz Repetition Frequency	Pass
Surge at Power Port	EN 55014-2:2015	EN 61000-4-5:2014	1.2/50µs Tr/Td 1kV Line to Line	Pass
Voltage Dips and Interruptions	EN 55014-2:2015	EN 61000-4-11:2004	For 50Hz: 0 % UT for 0.5cycle 40 % UT for 10cycles 70 % UT for 25cycles UT is Supply Voltage	Pass
Conducted Immunity at Power Port (150kHz-230MHz)	EN 55014-2:2015	EN 61000-4-6:2014	3Vrms (emf),80%,1kHz Amp. Mod.	Pass

N/A: Not applicable



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4 General Information

4.1 Details of E.U.T.

Power Supply:	AC 220-240V 50Hz DC 3V= 2 x DC 1.5V "AAA" batteries for remote controller
Test voltage:	AC 230V 50Hz
Rated power:	80W
Cable:	2 wires x 1.0m unscreened AC mains cable

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

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

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
 198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
 Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

● **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

● **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

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

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

● **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

● **Industry Canada (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

● **VCCI (Registration No.: R-12460, C-12584, G-10449 and T-11179)**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-10449 and T-11179 respectively.

● **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Netwok	Rohde & Schwarz	ENV216	EMC0118	2020-01-10	2021-01-09
LISN	Rohde & Schwarz	ENV216	EMC2135	2019-09-16	2020-09-15
EMI Test Receiver	Rohde & Schwarz	ESCS30	EMC0506	2019-11-18	2020-11-17
Coaxial Cable	HangTianXing	2m	EMC0107	2018-09-20	2020-09-19
Voltage Probe	SGS-EMC	N/A	EMC0106	2019-05-10	2021-05-09
Conical Metal Housing	SGS-EMC	N/A	EMC0167	2020-04-19	2022-04-18
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A

Disturbance Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	N/A	N/A
EMI Test Receiver	Rohde & Schwarz	ESCS30	EMC0506	2019-11-18	2020-11-17
Absorbing Clamp	Beijing Dazhe Co. Ltd.	ZN23201	EMC2040	2020-01-14	2021-01-13
Absorbing Clamp	Rohde & Schwarz	MDS-21	EMC2184	2020-03-02	2021-03-01
6 dB Attenuator with 8m length cable	Rohde & Schwarz	MDS-21	EMC2185	2020-03-02	2021-03-01
Slide Bar Controller	HD-GmbH	HD50	EMC0305	N/A	N/A
Slide Bar RP	HD-GmbH	KMS560	EMC0103	N/A	N/A
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A

Harmonic current emission, Voltage Fluctuations and Flicker					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
AC Power Source	California	50001iX	EMC0608	2020-03-27	2021-03-26
Power Analyzer	California	PACS	EMC0607	2020-03-27	2021-03-26
Test Software CTS4	California	Ver 4.14.0	GZE100-66	N/A	N/A

Electrostatic Discharge					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
ESD Simulator	TESEQ AG	NSG 435	EMC2071	2019-07-04	2020-07-03
ESD Simulator	EMTEST	NX30	EMC2186	2020-03-02	2021-03-01
ESD Ground Plane	SGS-EMC	3m x 3m	EMC0804	N/A	N/A
Temperature & Humidity	Shanghai Meteorological Instrument Factory Co., Ltd.	ZJ1-2B	EMC0078	2019-07-05	2020-07-04



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Radiated Immunity (80MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Compact 3m Semi-Anechoic Chamber	ChangZhou ZhongYu	N/A	EMC0525	2019-10-20	2022-10-19
Laser Probe Interface	RF Microwave Instrumentation	FI7000	EMC2089	N/A	N/A
Open Switch And Control Unit	Rohde & Schwarz	OSP130	EMC2090	N/A	N/A
Broadband Amplifier(80MHz~1GHz/250W)	Rohde & Schwarz	BBA150	EMC2091	2020-01-10	2021-01-09
Broadband Amplifier(800MHz~3GHz/110W)	Rohde & Schwarz	BBA150	EMC2092	2020-01-10	2021-01-09
Signal Generator	Rohde & Schwarz	SMB100A	EMC2093	2020-01-10	2021-01-09
Laser Probe	RF Microwave Instrumentation	FL7006	EMC2094	2020-03-02	2021-03-21
NRP-Z91 Power Sensor 6GHz	Rohde & Schwarz	NPR-Z91	EMC2095	2020-01-10	2021-01-09
NRP-Z91 Power Sensor 6GHz	Rohde & Schwarz	NPR-Z91	EMC2096	2020-01-10	2021-01-09
High-Gain Log-periodic Antenna	Rohde & Schwarz	HL046E	EMC2097	2019-02-15	2022-02-14
Stacked Logarithmic-Periodic Broadband Antenna (0.7~9GHz)/300W	SCHWARZBECK MESS - ELEKTRONIK	STLP 9149	SEM003-21	2018-09-18	2021-09-17
Broadband Amplifier (2.5~6GHz/30W)	Rohde & Schwarz	BBA150	EMC2105	2019-09-16	2020-09-15
RI Cable	Rohde & Schwarz	7m	EMC2098	2019-05-24	2020-05-23
Oscilloscope	Tektronix	TDS3052C	EMC2055	2020-01-10	2021-01-09
Audio Analyzer	Keysight	U8903B	EMC2180	2019-09-30	2020-09-29
Monitor System	Mitsubish Corp.	M-0552AB	EMC0909	N/A	N/A
Test Software EMC32	Rohde & Schwarz	Ver. 9.26.00	GZE100-63	N/A	N/A

Electrical Fast Transients/Burst at Power Port					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMC Immunity Test System	TESEQ AG	NSG 3060CDN30611 NA 6502 CIBCND3425	EMC2072	2020-01-10	2021-01-09
Oscilloscope	Tektronix	TDS3052C	EMC2055	2020-01-10	2021-01-09
Test Software WIN 3000	TESEQ AG	Ver 1.3.2	GZE100-68	N/A	N/A



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Surge at Power Port					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Modular Impulse Surge Generator	EMC PARTNER	MIG0603EN	EMC2059	2020-01-10	2021-01-09
EMC Immunity Test System	TESEQ AG	NSG 3060CDN30611 NA 6502 CIBCND3425	EMC2072	2020-01-10	2021-01-09
Oscilloscope	Tektronix	TDS3052C	EMC2055	2020-01-10	2021-01-09
Test Software WIN 3000	TESEQ AG	Ver 1.3.2	GZE100-68	N/A	N/A

Voltage Dips and Interruptions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMC Immunity Test System	TESEQ AG	NSG 3060CDN30611 NA 6502 CIBCND3425	EMC2072	2020-01-10	2021-01-09
Oscilloscope	Tektronix	TDS3052C	EMC2055	2020-01-10	2021-01-09
Test Software WIN 3000	TESEQ AG	Ver 1.3.2	GZE100-68	N/A	N/A

Conducted Immunity at Power Port (150kHz-230MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Test System for Conducted and Radiated Immunity	TESEQ AG	NSG 4070B-80	EMC2115	2019-07-04	2020-07-04
Test Software NSG4070_Ctrl1	TESEQ AG	Ver.1.3.0.1	GZE100-72	N/A	N/A
CDN S502A	TESEQ AG	CDN S502A	EMC2113	2019-07-13	2021-07-12
CDN ST08A	TESEQ AG	CDN ST08A	EMC2112	2019-07-13	2021-07-12
CDN USB3.0	TESEQ AG	CDN USB3.0	EMC2114	2019-07-13	2021-07-12
Dual Directional coupler	Werlatone Inc.	C1795	EMC1105	2019-06-11	2020-06-10
Oscilloscope	Tektronix	TDS3052C	EMC2055	2020-01-10	2021-01-09
CDN	Elektronik-Feinmechanik	L-801:M2/M3	EMC2048	2018-08-13	2020-08-13
CDN M2	Schaffner Chase	CDN-M2-16	EMC1107	2017-10-26	2020-10-25
Current Probe	Schaffner Chase	CIP9136	EMC1116	2017-10-26	2020-10-25
Current Probe	Schaffner Chase	CSP8445	EMC1117	2017-10-26	2020-10-25
Audio Analyzer	Keysight	U8903B	EMC2180	2019-09-30	2020-09-29

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



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6 Emission Test Results

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

Test Requirement:	EN 55014-1:2017
Test Method:	CISPR 16-2-1
Frequency Range:	150kHz to 30MHz
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 59dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.1.1 E.U.T. Operation

Operating Environment:

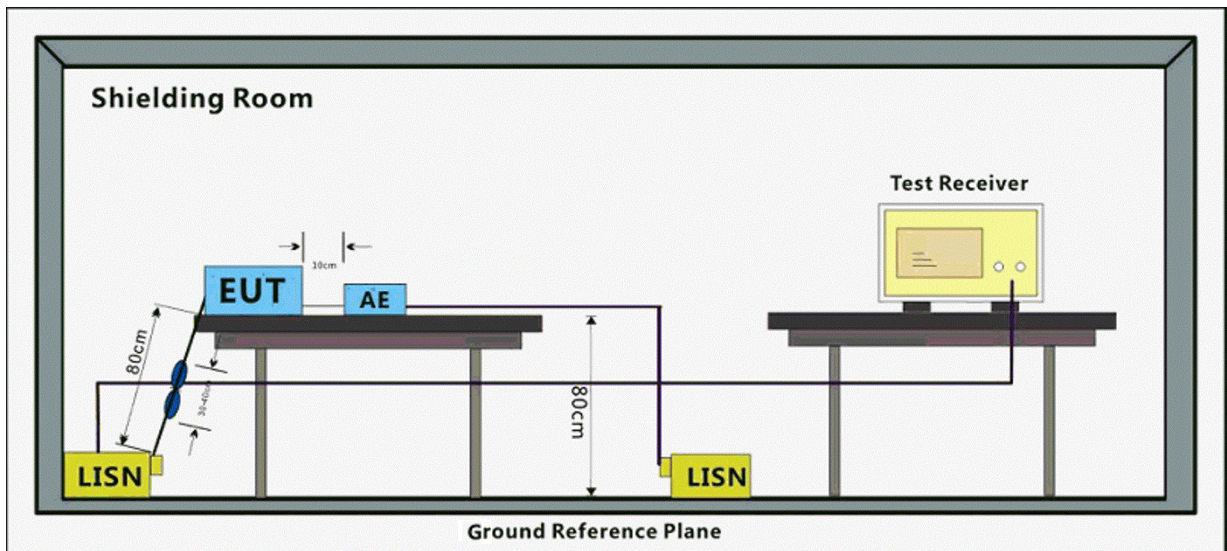
Temperature: 23.8 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

Pre test these modes to find the worst case:

- a: Test the EUT in normal working and setting the fan running with high speed mode.
- b: Test the EUT in normal working and setting the fan running with middle speed mode.
- c: Test the EUT in normal working and setting the fan running with low speed mode.

The worst case for final test: a: Test the EUT in normal working and setting the fan running with high speed mode.

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

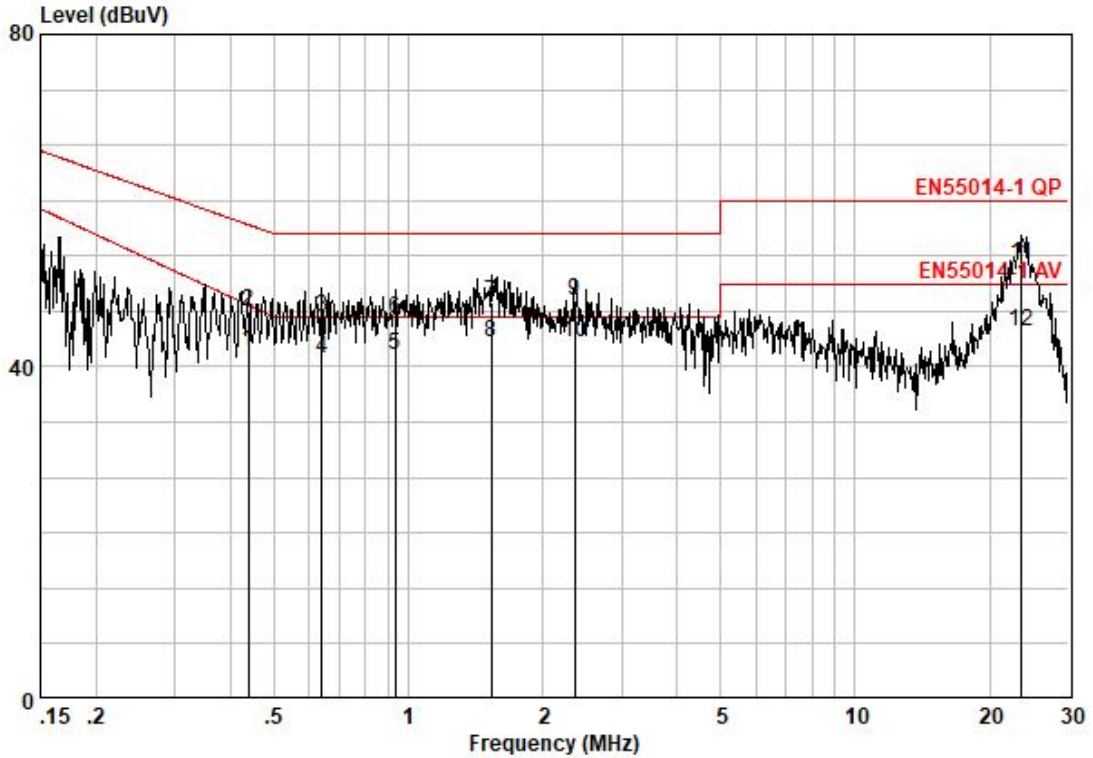
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

Measured Level = Read level + Cable Loss + LISN Factor



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Mode:a; Line:Live Line



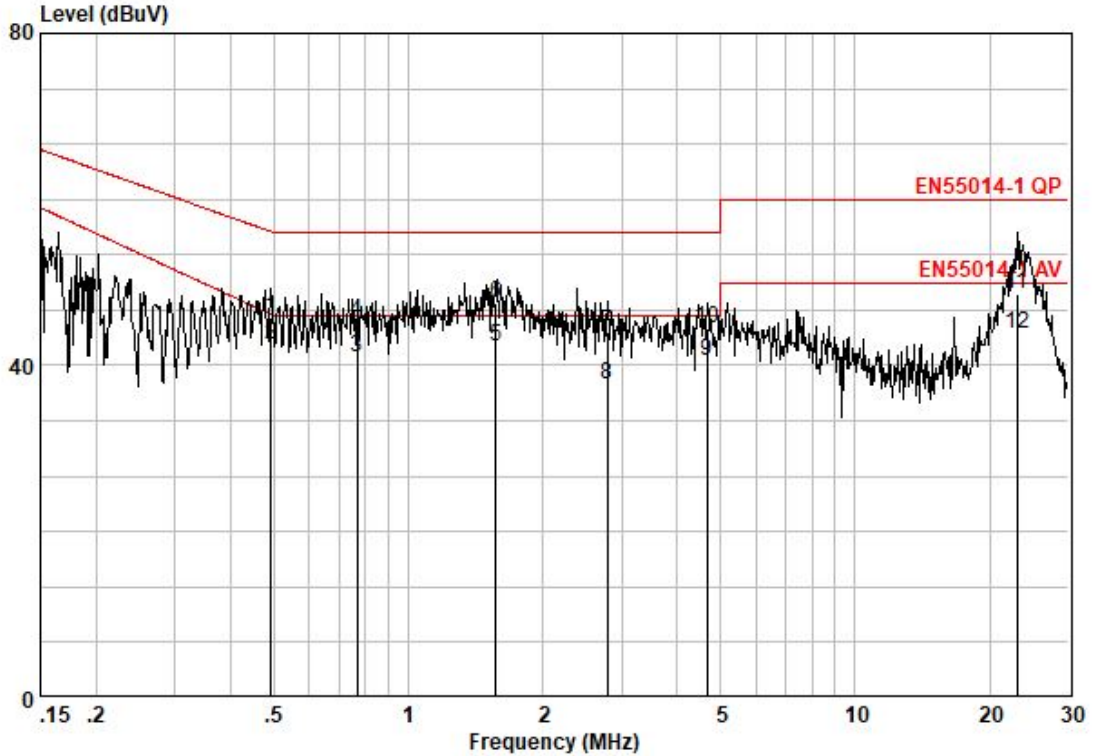
Pol :LIVE
No :
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.44	31.98	0.10	9.66	41.74	47.44	-5.70	AVERAGE
0.44	36.81	0.10	9.66	46.57	57.11	-10.54	QP
0.64	36.13	0.10	9.67	45.90	56.00	-10.10	QP
0.64	31.17	0.10	9.67	40.94	46.00	-5.06	AVERAGE
0.93	31.70	0.10	9.67	41.47	46.00	-4.53	AVERAGE
0.93	35.95	0.10	9.67	45.72	56.00	-10.28	QP
1.54	37.90	0.10	9.68	47.68	56.00	-8.32	QP
1.54	33.22	0.10	9.68	43.00	46.00	-3.00	AVERAGE
2.36	38.17	0.14	9.69	48.00	56.00	-8.00	QP
2.36	33.17	0.14	9.69	43.00	46.00	-3.00	AVERAGE
23.64	42.22	0.40	9.80	52.42	60.00	-7.58	QP
23.64	34.14	0.40	9.80	44.34	50.00	-5.66	AVERAGE



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Mode:a; Line:Neutral Line



Pol : NEUTRAL
No :
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.49	36.01	0.10	9.60	45.71	56.14	-10.43	QP
0.49	32.78	0.10	9.60	42.48	46.19	-3.71	AVERAGE
0.77	31.17	0.10	9.61	40.88	46.00	-5.12	AVERAGE
0.77	35.73	0.10	9.61	45.44	56.00	-10.56	QP
1.57	32.67	0.10	9.61	42.38	46.00	-3.62	AVERAGE
1.57	37.74	0.10	9.61	47.45	56.00	-8.55	QP
2.79	34.19	0.18	9.62	43.99	56.00	-12.01	QP
2.79	27.89	0.18	9.62	37.69	46.00	-8.31	AVERAGE
4.67	30.71	0.20	9.64	40.55	46.00	-5.45	AVERAGE
4.67	34.67	0.20	9.64	44.51	56.00	-11.49	QP
23.02	38.15	0.40	10.01	48.56	60.00	-11.44	QP
23.02	33.51	0.40	10.01	43.92	50.00	-6.08	AVERAGE



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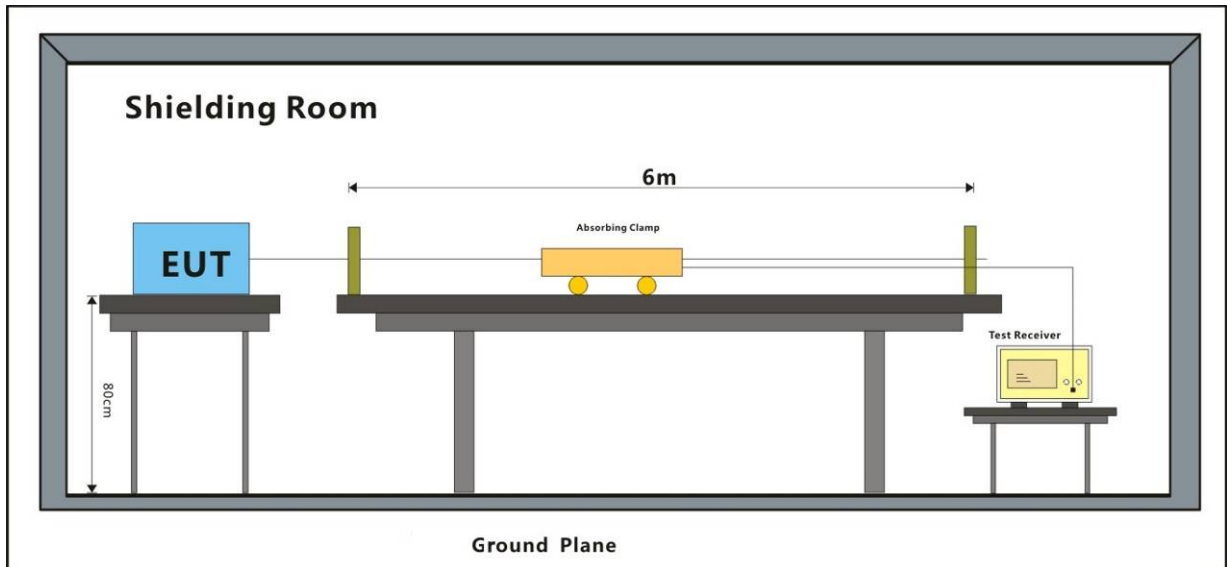
6.2 Disturbance Power

Test Requirement: EN 55014-1:2017
 Test Method: CISPR 16-2-2
 Frequency Range: 30MHz to 300MHz
 Limit:
 30MHz- 300MHz 45dB(pw)-55dB(pw) quasi-peak, 35dB(pw)-45dB(pw) average
 Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 300MHz

6.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.5 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar
 Pre test these modes to find the worst case:
 a: Test the EUT in normal working and setting the fan running with high speed mode.
 b: Test the EUT in normal working and setting the fan running with middle speed mode.
 c: Test the EUT in normal working and setting the fan running with low speed mode.
 The worst case for final test:
 a: Test the EUT in normal working and setting the fan running with high speed mode.

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

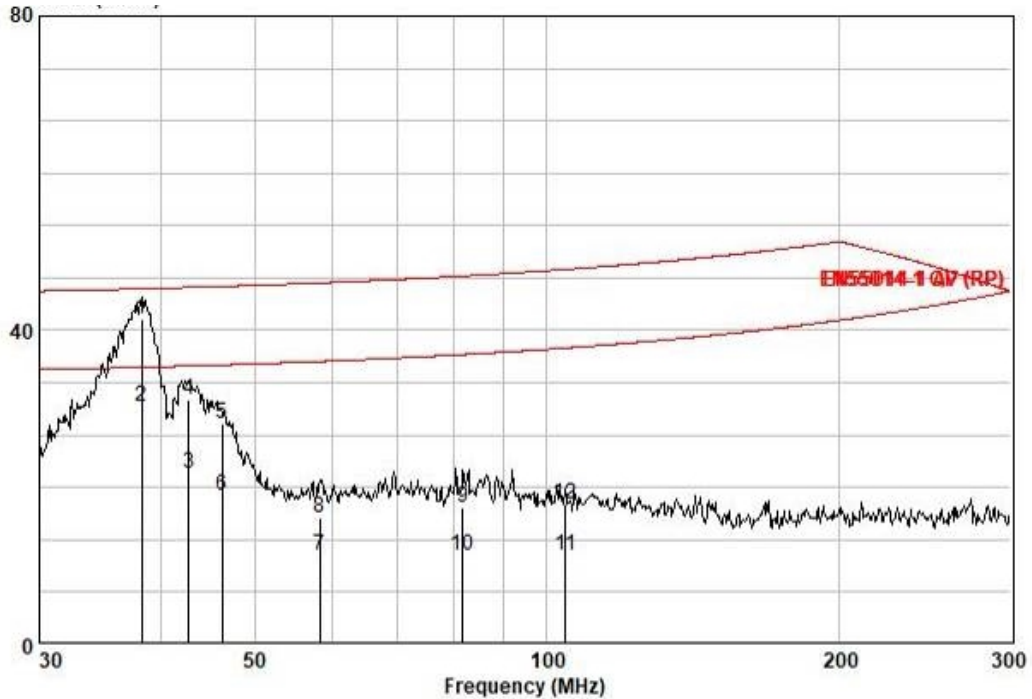
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

Measured Level = Read level + Cable Loss + Clamp Factor



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Mode:a
Level(dBpW)



No :
Mode :

Frequency MHz	Read level dBuV	Cable Loss dB	Clamp Factor dBpW/dBuV	Measured level dBpW	Limit Line dBpW	Over limit dB	Remark
38.205	33.12	6.97	1.39	41.48	45.30	-3.83	QP
38.205	22.00	6.97	1.39	30.36	35.30	-4.95	AVERAGE
42.768	14.07	7.00	0.81	21.88	35.47	-13.59	AVERAGE
42.768	23.35	7.00	0.81	31.16	45.47	-14.31	QP
46.251	20.26	7.00	0.85	28.11	45.60	-17.49	QP
46.251	11.11	7.00	0.85	18.96	35.60	-16.64	AVERAGE
58.361	3.88	7.10	0.40	11.38	36.05	-24.67	AVERAGE
58.361	8.71	7.10	0.40	16.21	46.05	-29.84	QP
81.869	10.30	7.20	0.02	17.52	46.92	-29.40	QP
81.869	4.19	7.20	0.02	11.41	36.92	-25.51	AVERAGE
104.501	4.77	7.30	-0.64	11.43	37.76	-26.33	AVERAGE
104.501	11.12	7.30	-0.64	17.78	47.76	-29.98	QP



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6.3 Harmonic Current Emission

Test Requirement: EN IEC 61000-3-2:2019
 Test Method: EN IEC 61000-3-2:2019
 Frequency Range: 100Hz to 2kHz

6.3.1 E.U.T. Operation

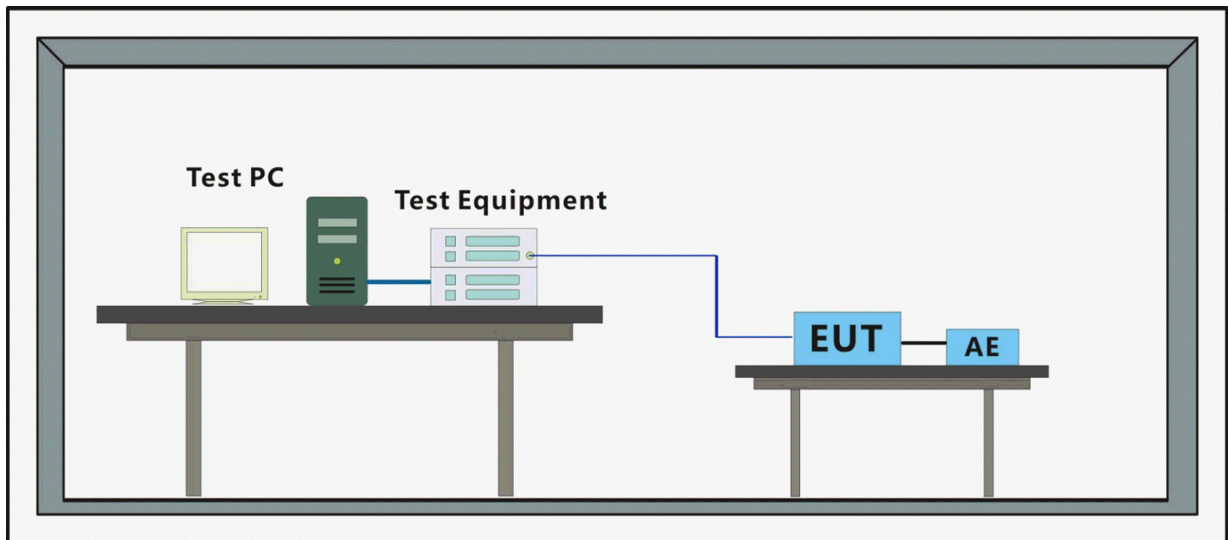
Operating Environment:

Temperature: 25.7 °C Humidity: 58 % RH Atmospheric Pressure: 1020 mbar

Pre test these modes to find the worst case:
 a: Test the EUT in normal working and setting the fan running with high speed mode.
 b: Test the EUT in normal working and setting the fan running with middle speed mode.
 c: Test the EUT in normal working and setting the fan running with low speed mode.

The worst case for final test: a: Test the EUT in normal working and setting the fan running with high speed mode

6.3.2 Test Setup Diagram



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6.3.3 Measurement Data

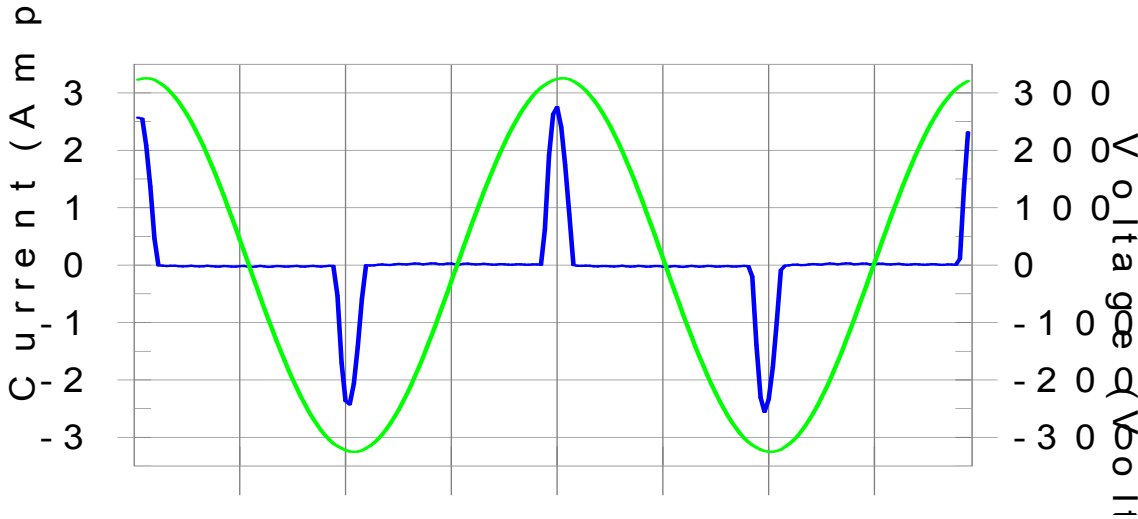
Mode:a

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

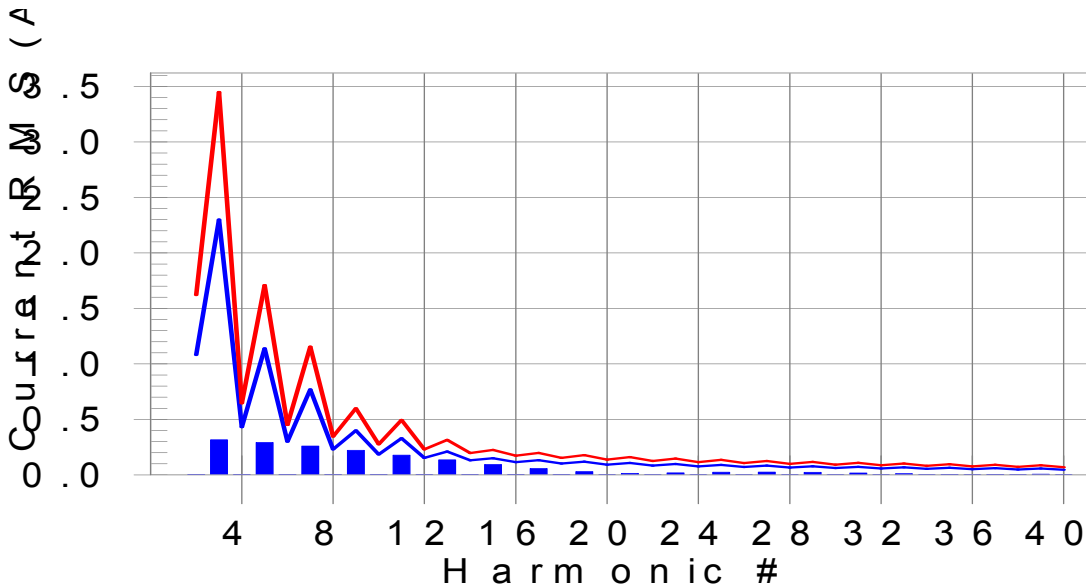
Test category: Class-A per Ed. 5.0 (2018) (European limits) Test Margin: 100
 Test duration (min): 2.5

Test Result: Pass Source qualification: Normal

Current & voltage waveforms



Harmonics and Class A limit line European Limits



Test result: Pass Worst harmonics H13-43.2% of 150% limit, H13-64.4% of 100% limit



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Current Test Result Summary (Run time)

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

Test Result: Pass Source qualification: Normal
 THC(A): 0.607 I-THD(%): 183.5 POHC(A): 0.053 POHC Limit(A): 0.251

Highest parameter values during test:

V_RMS (Volts): 230.00	Frequency(Hz): 50.00
I_Peak (Amps): 2.773	I_RMS (Amps): 0.696
I_Fund (Amps): 0.331	Crest Factor: 4.006
Power (Watts): 75.6	Power Factor: 0.475

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.003	1.080	N/A	0.005	1.620	N/A	Pass
3	0.317	2.300	13.8	0.319	3.450	9.2	Pass
4	0.003	0.430	N/A	0.004	0.645	N/A	Pass
5	0.293	1.140	25.7	0.294	1.710	17.2	Pass
6	0.003	0.300	N/A	0.005	0.450	N/A	Pass
7	0.260	0.770	33.8	0.261	1.155	22.6	Pass
8	0.003	0.230	N/A	0.004	0.345	N/A	Pass
9	0.221	0.400	55.3	0.222	0.600	37.0	Pass
10	0.002	0.184	N/A	0.003	0.276	N/A	Pass
11	0.178	0.330	54.1	0.179	0.495	36.2	Pass
12	0.002	0.153	N/A	0.003	0.230	N/A	Pass
13	0.135	0.210	64.4	0.136	0.315	43.2	Pass
14	0.001	0.131	N/A	0.002	0.197	N/A	Pass
15	0.094	0.150	62.8	0.095	0.225	42.3	Pass
16	0.001	0.115	N/A	0.002	0.173	N/A	Pass
17	0.058	0.132	43.9	0.059	0.198	29.8	Pass
18	0.001	0.102	N/A	0.001	0.153	N/A	Pass
19	0.029	0.118	24.8	0.030	0.178	16.9	Pass
20	0.001	0.092	N/A	0.001	0.138	N/A	Pass
21	0.014	0.107	13.0	0.014	0.161	8.8	Pass
22	0.001	0.084	N/A	0.001	0.125	N/A	Pass
23	0.018	0.098	18.7	0.019	0.147	12.7	Pass
24	0.001	0.077	N/A	0.001	0.115	N/A	Pass
25	0.024	0.090	27.1	0.025	0.135	18.2	Pass
26	0.001	0.071	N/A	0.001	0.107	N/A	Pass
27	0.026	0.083	31.0	0.026	0.125	20.7	Pass
28	0.001	0.066	N/A	0.001	0.099	N/A	Pass
29	0.023	0.078	29.6	0.023	0.116	19.9	Pass
30	0.001	0.061	N/A	0.001	0.092	N/A	Pass
31	0.017	0.073	23.9	0.018	0.109	16.1	Pass
32	0.000	0.058	N/A	0.001	0.086	N/A	Pass
33	0.010	0.068	15.2	0.011	0.102	10.5	Pass
34	0.000	0.054	N/A	0.001	0.081	N/A	Pass
35	0.004	0.064	N/A	0.004	0.096	N/A	Pass
36	0.000	0.051	N/A	0.001	0.077	N/A	Pass
37	0.003	0.061	N/A	0.004	0.091	N/A	Pass
38	0.000	0.048	N/A	0.001	0.073	N/A	Pass
39	0.007	0.058	12.1	0.007	0.087	8.3	Pass
40	0.000	0.046	N/A	0.001	0.069	N/A	Pass



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6.4 Voltage Fluctuations and Flicker

Test Requirement: EN 61000-3-3:2013 +A1:2019

Test Method: EN 61000-3-3:2013 +A1:2019

6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.7 °C Humidity: 58 % RH Atmospheric Pressure: 1020 mbar

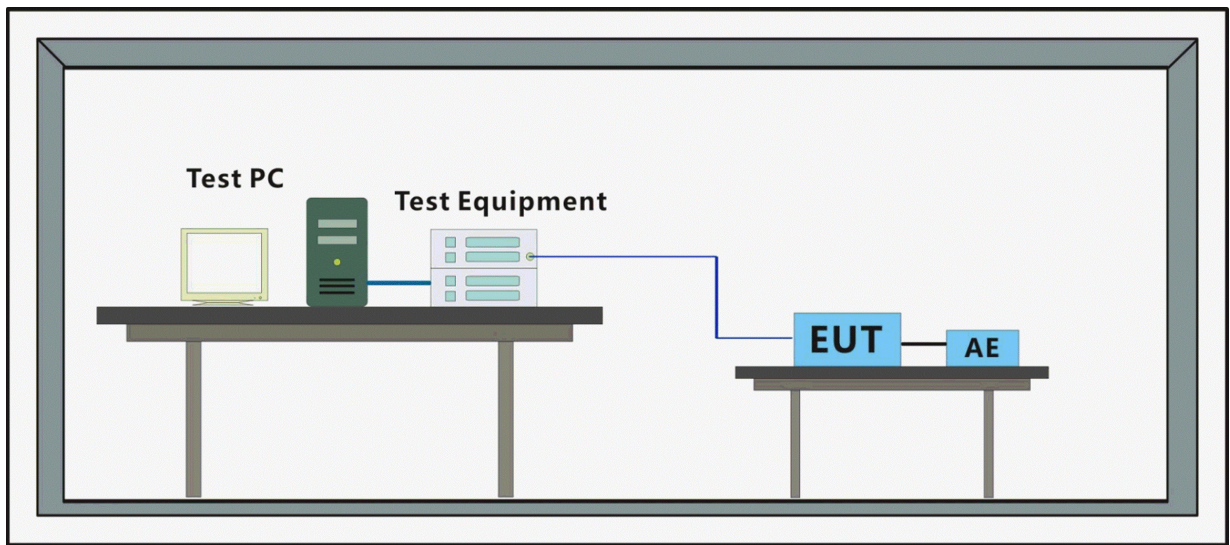
Pre test these modes to find the worst case:

- a: Test the EUT in normal working and setting the fan running with high speed mode.
- b: Test the EUT in normal working and setting the fan running with middle speed mode.
- c: Test the EUT in normal working and setting the fan running with low speed mode.

The worst case for final test:

- a: Test the EUT in normal working and setting the fan running with high speed mode.

6.4.2 Test Setup Diagram



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6.4.3 Measurement Data

Mode:a

Flicker Test Summary per EN 61000-3-3 Ed. 3.0 (2013) (Run time)

Test category: dt,dmax,dc and Pst (European limits)

Test Margin: 100

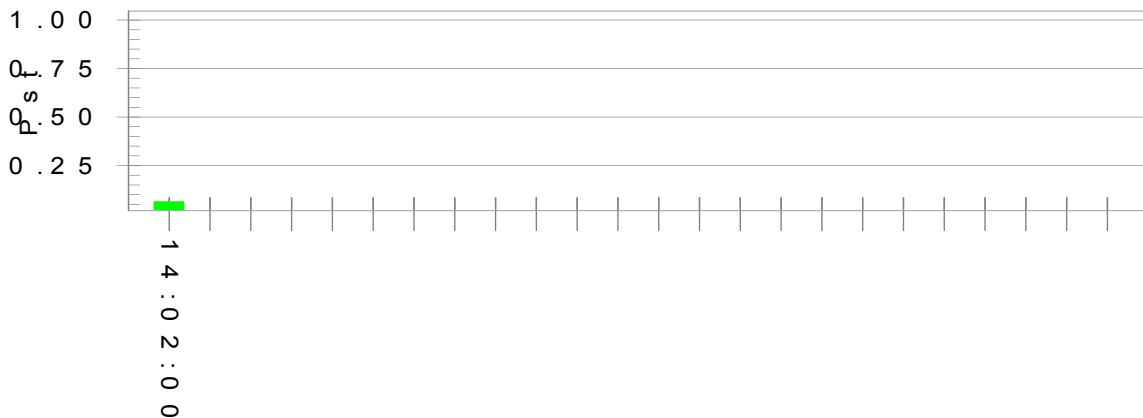
Test duration (min): 10

Test Result: Pass

Status: Test Completed

Pst_i and limit line

European Limits



Parameter values recorded during the test:

Vrms at the end of test (Volt):	229.89		
T-max (mS):	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



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7 Immunity Test Results

7.1 Performance Criteria Description in EN 55014-2:2015

- Criterion A** The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.
- Criterion B** The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however. No change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation and from what the user may reasonably expect from the apparatus if used as intended.
- Criterion C** Temporary loss of function is allowed, provided the function is self recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.



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7.2 Electrostatic Discharge

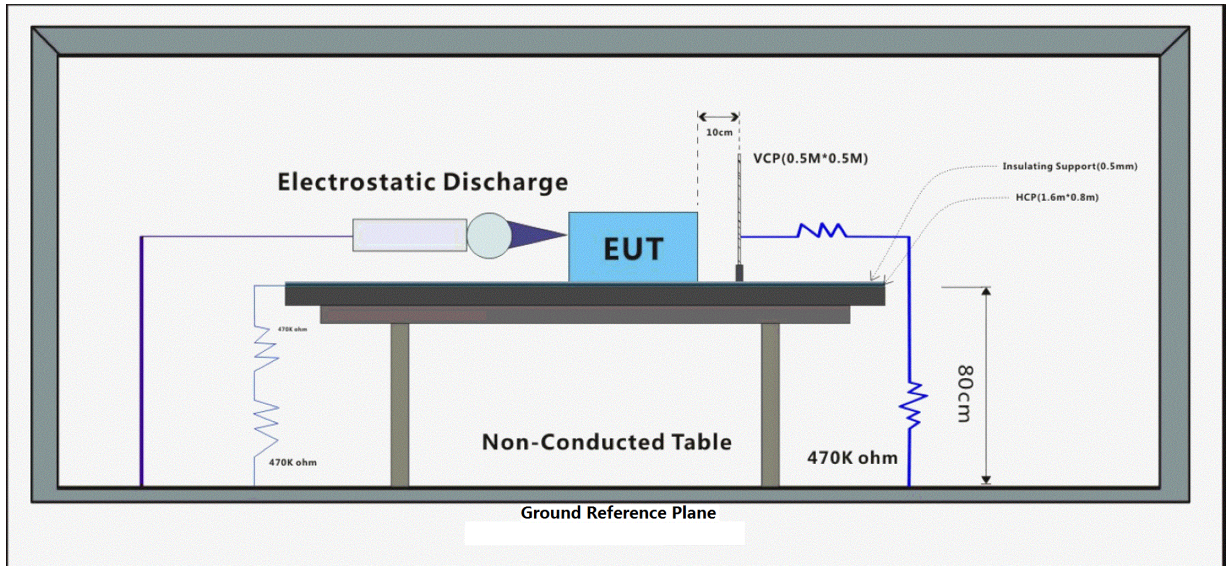
Test Requirement:	EN 55014-2:2015
Test Method:	EN 61000-4-2:2009
Performance Criterion:	B
Discharge Impedance:	330Ω/150pF
Number of Discharge:	Minimum 10 times at each test point
Discharge Mode:	Single Discharge
Discharge Period:	1 second minimum

7.2.1 E.U.T. Operation

Operating Environment:

- Temperature: 22.7 °C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar
- Test Mode:
- a: Test the EUT in normal working and setting the fan running with high speed mode.
 - b: Test the EUT in normal working and setting the fan running with middle speed mode.
 - c: Test the EUT in normal working and setting the fan running with low speed mode.
 - d: Test the EUT in idle mode.
 - e: Test the remote controller in continuously emitting mode.

7.2.2 Test Setup Diagram



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7.2.3 Test Results

Test Point:

Observations:

1. All insulated enclosure and seams.
2. All accessible metal parts of the enclosure.
3. All side

Discharge type	Level (Kv)	Polarity	Test Point	Result / Observations
Air Discharge	8	+	1	A
Air Discharge	8	-	1	A
Contact Discharge	4	+	2	A
Contact Discharge	4	-	2	A
Horizontal Coupling	4	+	3	N/A
Horizontal Coupling	4	-	3	N/A
Vertical Coupling	4	+	3	A
Vertical Coupling	4	-	3	A

Results:

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

N/A: Not applicable.



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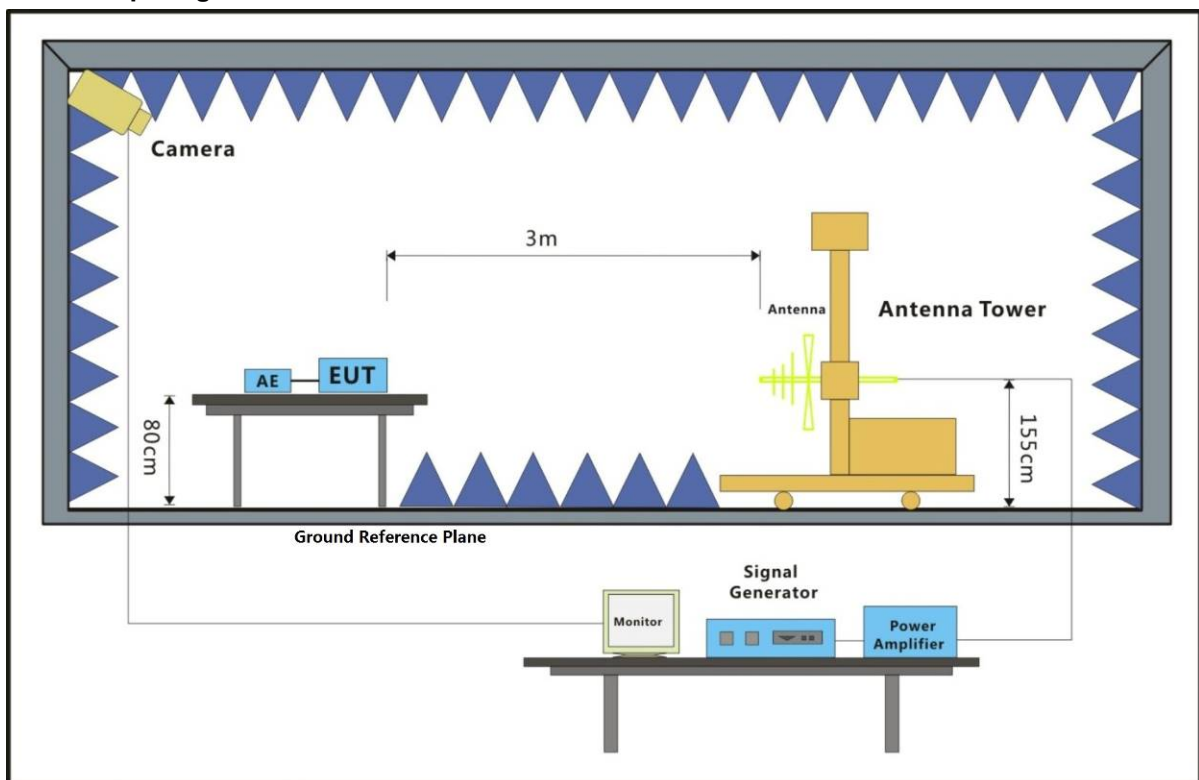
7.3 Radiated Immunity (80MHz-1GHz)

Test Requirement: EN 55014-2:2015
 Test Method: EN 61000-4-3:2006 +A1:2008+A2:2010
 Performance Criterion: A
 Frequency Range: 80MHz to 1GHz
 Antenna Polarisation: Vertical and Horizontal
 Modulation: 1kHz,80% Amp. Mod,1% increment

7.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.7 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar
 Test Mode:
 d: Test the EUT in idle mode.
 e: Test the remote controller in continuously emitting mode.

7.3.2 Test Setup Diagram



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7.3.3 Test Results

Frequency	Level (V/m)	EUT Face	Dwell time	Result / Observations
80MHz-1GHz	3	Front	2s	A
80MHz-1GHz	3	Back	2s	A
80MHz-1GHz	3	Left	2s	A
80MHz-1GHz	3	Right	2s	A
80MHz-1GHz	3	Top	2s	A
80MHz-1GHz	3	Underside	2s	A

Results:

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



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7.4 Electrical Fast Transients/Burst at Power Port

Test Requirement: EN 55014-2:2015
 Test Method: EN 61000-4-4:2012
 Performance Criterion: B
 Repetition Frequency: 5kHz
 Burst Period: 300ms
 Test Duration: 2 minute per level & polarity

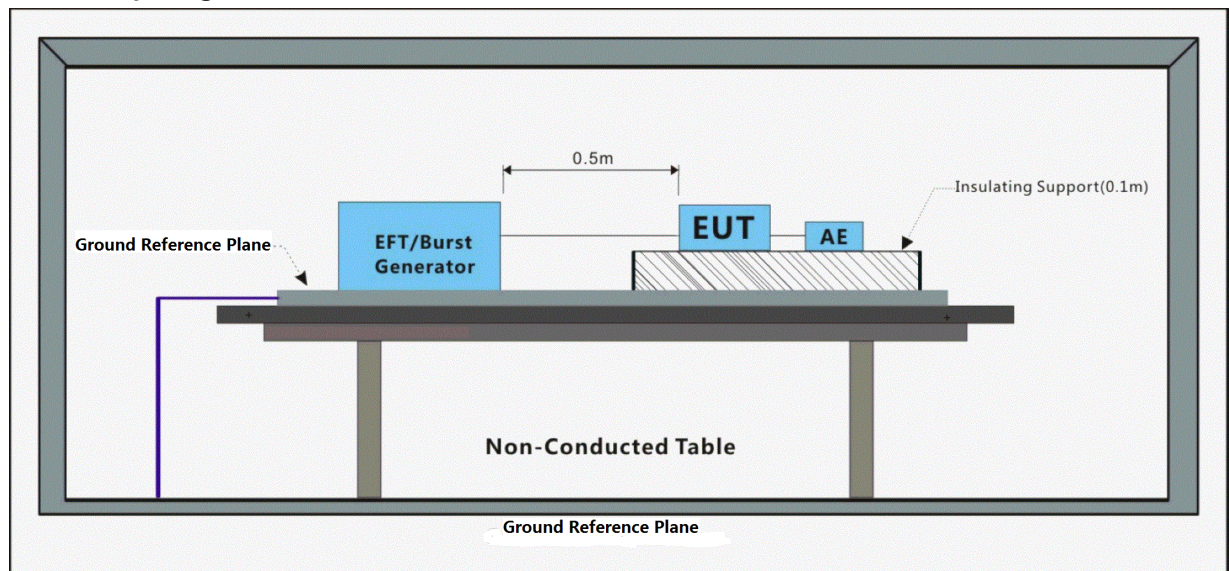
7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Humidity: 65.9 % RH Atmospheric Pressure: 1020 mbar

Test Mode:
 a: Test the EUT in normal working and setting the fan running with high speed mode.
 b: Test the EUT in normal working and setting the fan running with middle speed mode.
 c: Test the EUT in normal working and setting the fan running with low speed mode.
 d: Test the EUT in idle mode.

7.4.2 Test Setup Diagram



7.4.3 Test Results

Test Line	Level (kV)	Polarity	CDN/Clamp	Result / Observations
AC power port	1	+	CDN	A
AC power port	1	-	CDN	A

Results:

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



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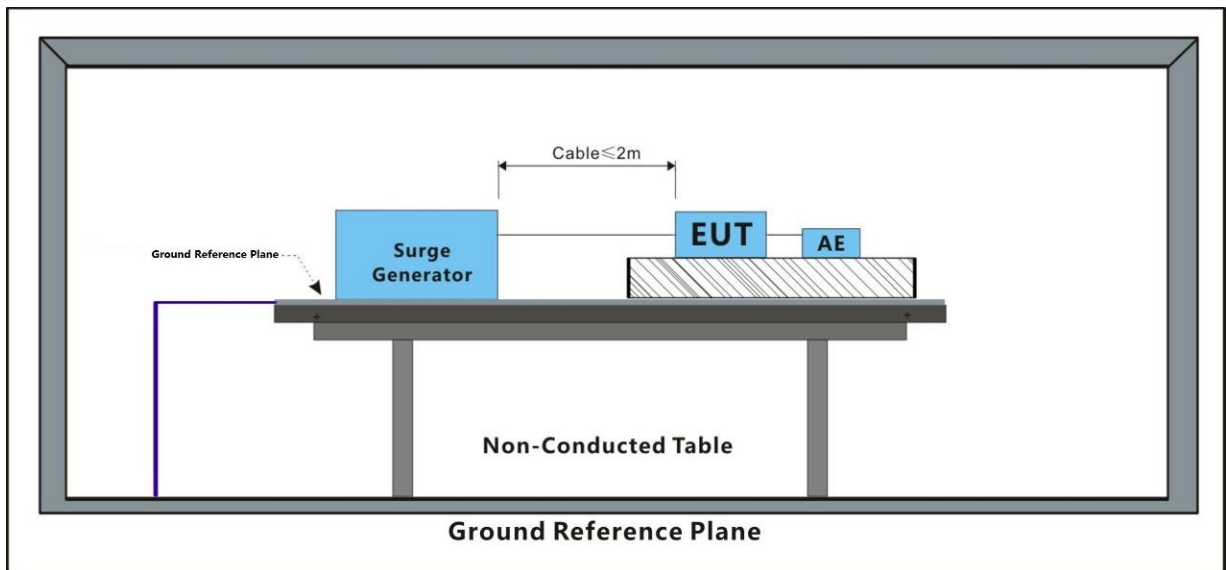
7.5 Surge at Power Port

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

7.5.1 E.U.T. Operation

Operating Environment:
 Temperature: 25.5 °C Humidity: 66.3 % RH Atmospheric Pressure: 1020 mbar
 Test Mode:
 a: Test the EUT in normal working and setting the fan running with high speed mode.
 b: Test the EUT in normal working and setting the fan running with middle speed mode.
 c: Test the EUT in normal working and setting the fan running with low speed mode.
 d: Test the EUT in idle mode.

7.5.2 Test Setup Diagram



7.5.3 Test Results

Test Line	Level (kV)	Polarity	Phase (deg)	Result / Observations
L-N	1	+	90°	A
L-N	1	-	270°	A

Results:

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



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7.6 Voltage Dips and Interruptions

Test Requirement: EN 55014-2:2015
 Test Method: EN 61000-4-11:2004
 Performance Criterion: For 50Hz:
 0% of UT (Rated Voltage) for 0.5 Cycle: C;
 40% of UT for 10 Cycle: C;
 70% of UT for 25 Cycle: C

No. of Dips / Interruptions: 3 per Level

Time between dropout 10s

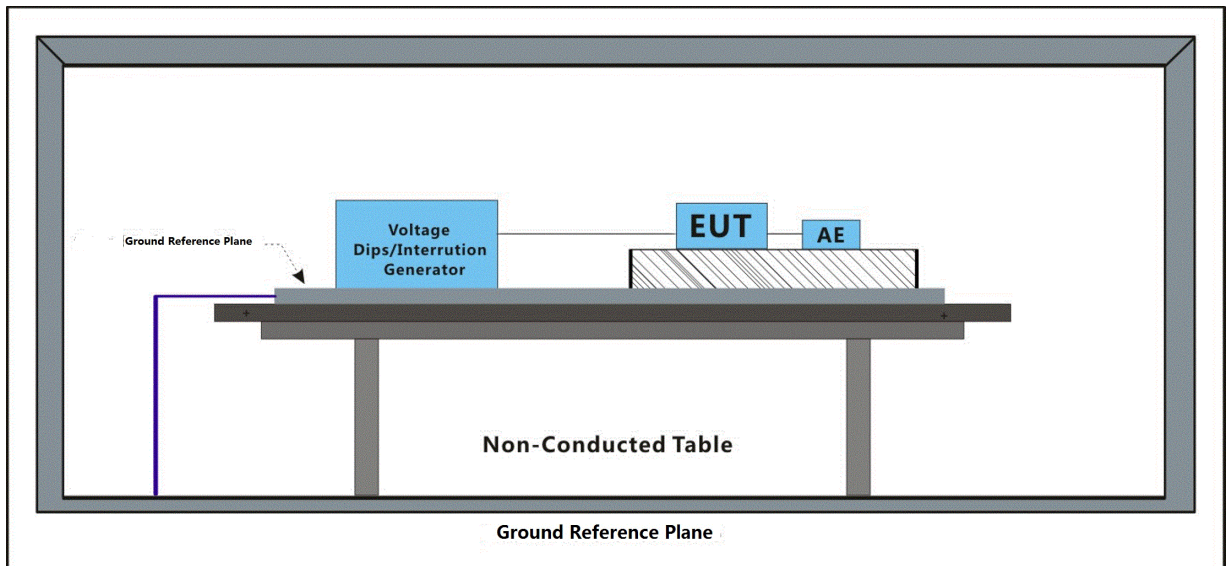
7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Humidity: 66.6 % RH Atmospheric Pressure: 1020 mbar

Test Mode:
 a: Test the EUT in normal working and setting the fan running with high speed mode.
 b: Test the EUT in normal working and setting the fan running with middle speed mode.
 c: Test the EUT in normal working and setting the fan running with low speed mode.
 d: Test the EUT in idle mode.

7.6.2 Test Setup Diagram



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7.6.3 Test Results

Level % UT	Phase (deg)	Duration	No. of Dips / Interruptions	Result / Observations
0	0°	0.5 Cycles for 50Hz	3	A
0	180°	0.5 Cycles for 50Hz	3	A
40	0°	10 Cycles for 50Hz	3	A
70	0°	25 Cycles for 50Hz	3	A

Results:

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



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

Test Requirement: EN 55014-2:2015
 Test Method: EN 61000-4-6:2014
 Performance Criterion: A
 Frequency Range: 0.15MHz to 230MHz
 Modulation: 80%, 1kHz Amplitude Modulation
 Step Size 1%

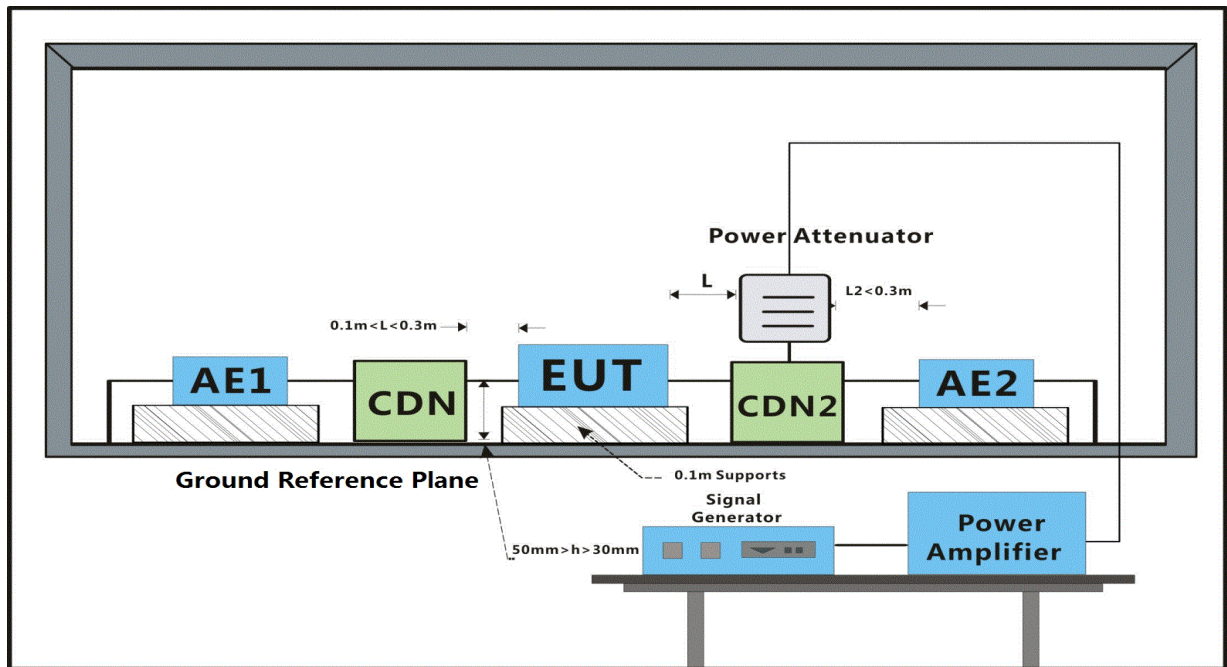
7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Humidity: 66.5 % RH Atmospheric Pressure: 1020 mbar

Test Mode: a: Test the EUT in normal working and setting the fan running with high speed mode.
 b: Test the EUT in normal working and setting the fan running with middle speed mode.
 c: Test the EUT in normal working and setting the fan running with low speed mode.
 d: Test the EUT in idle mode.

7.7.2 Test Setup Diagram



7.7.3 Test Results

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

Results:

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



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8 Photographs

8.1 Conducted Emissions at Mains Terminals (150kHz-30MHz) Test Setup



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8.2 Disturbance Power Test Setup



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8.3 Harmonic current emission, Voltage Fluctuations and Flicker Test Setup



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8.4 Electrostatic Discharge Test Setup



8.5 Radiated Immunity (80MHz-1GHz) Test Setup



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8.6 Electrical Fast Transients/Burst at Power Port Test Setup



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8.7 Surge at Power Port Test Setup



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8.8 Voltage Dips and Interruptions Test Setup



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



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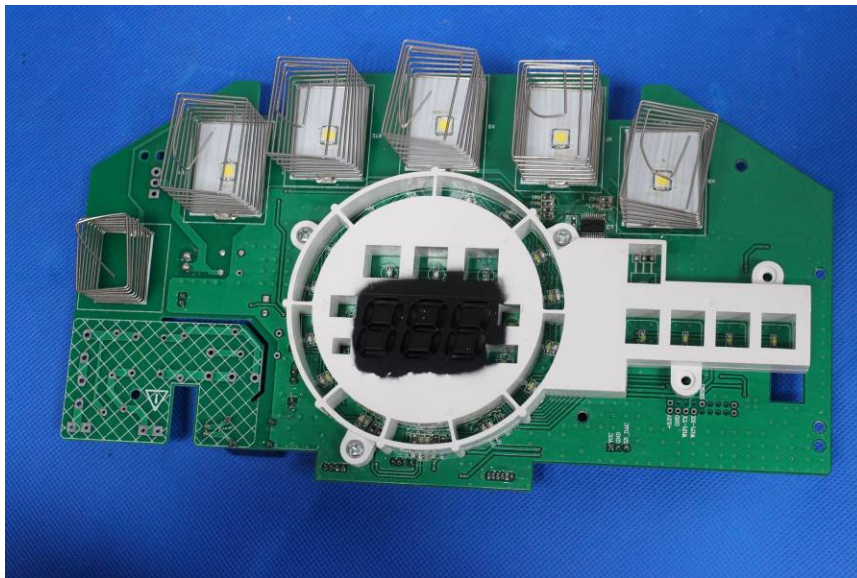
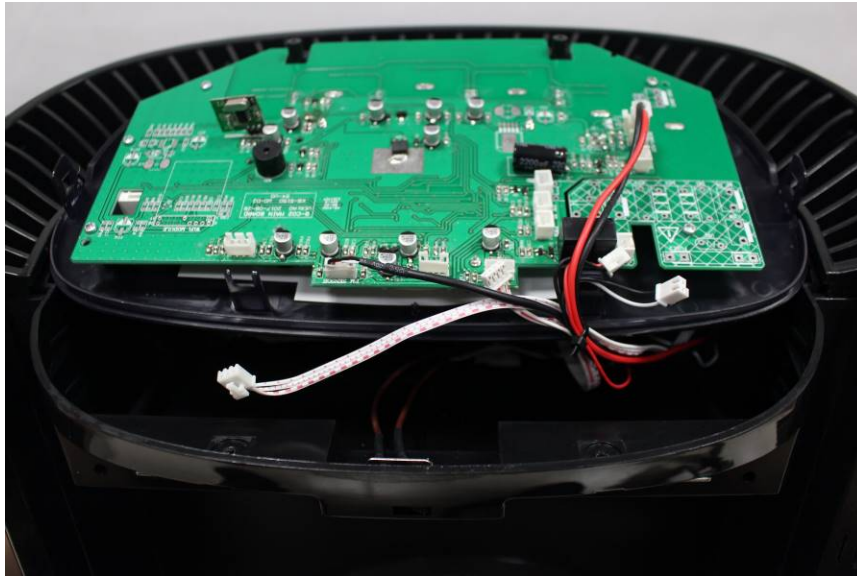
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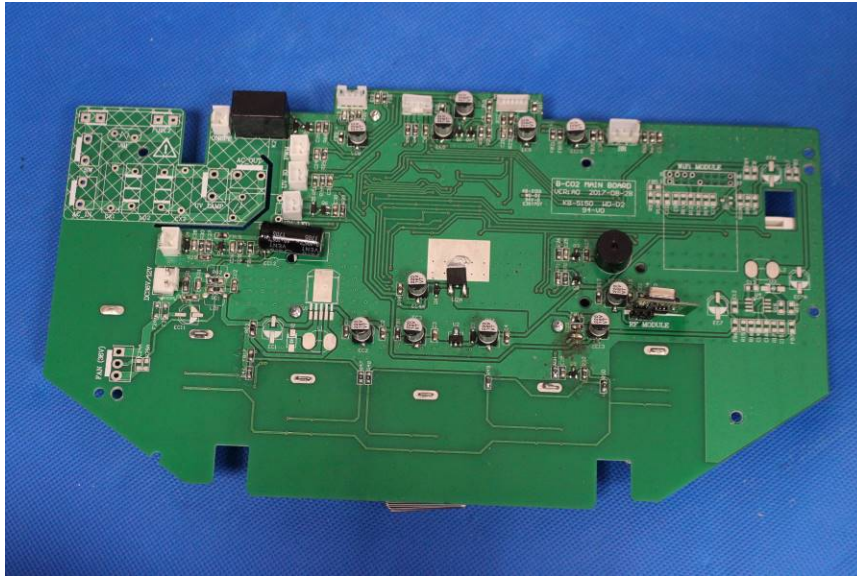
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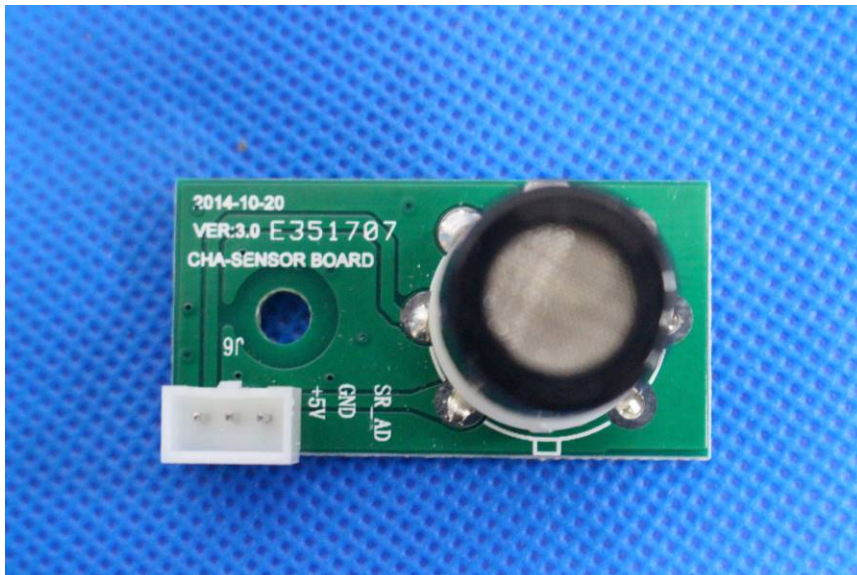
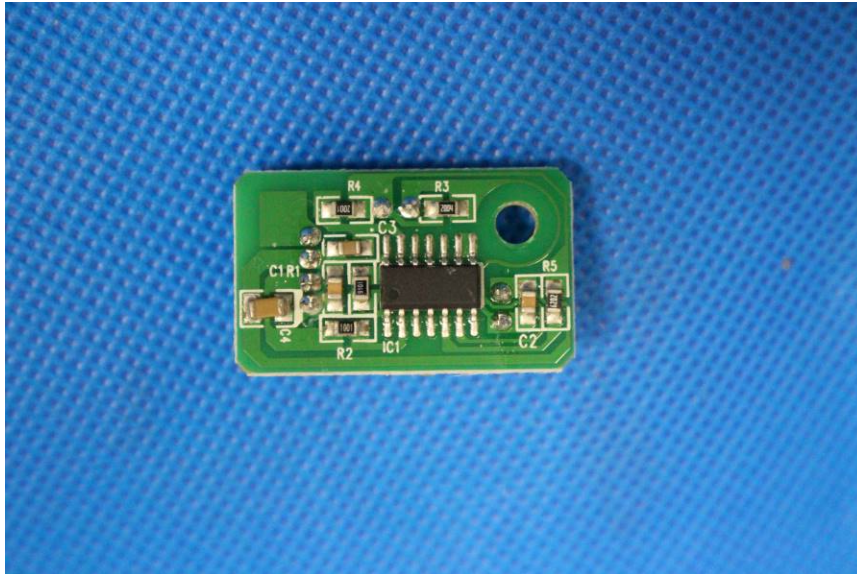
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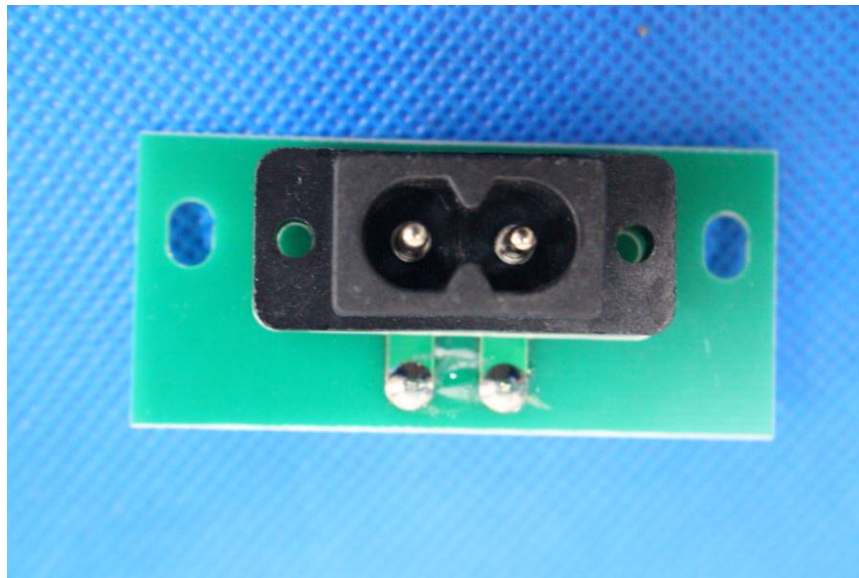
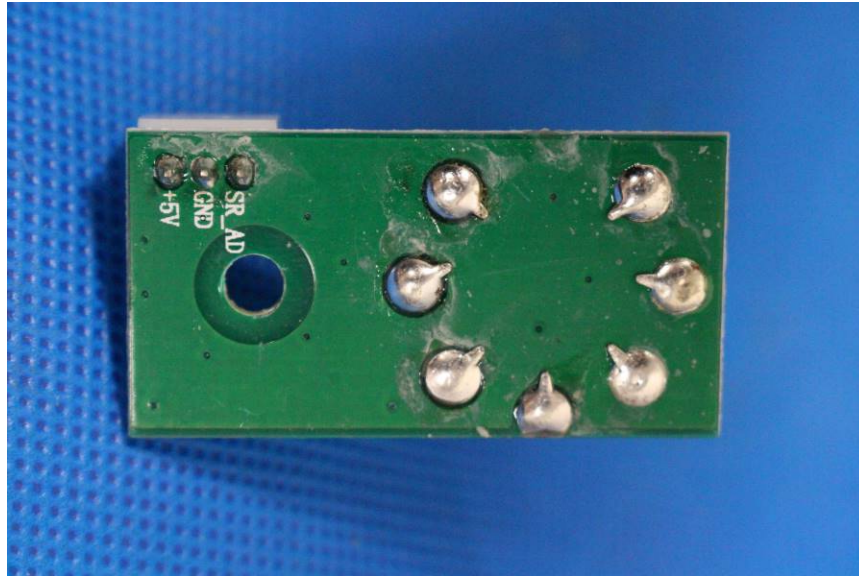
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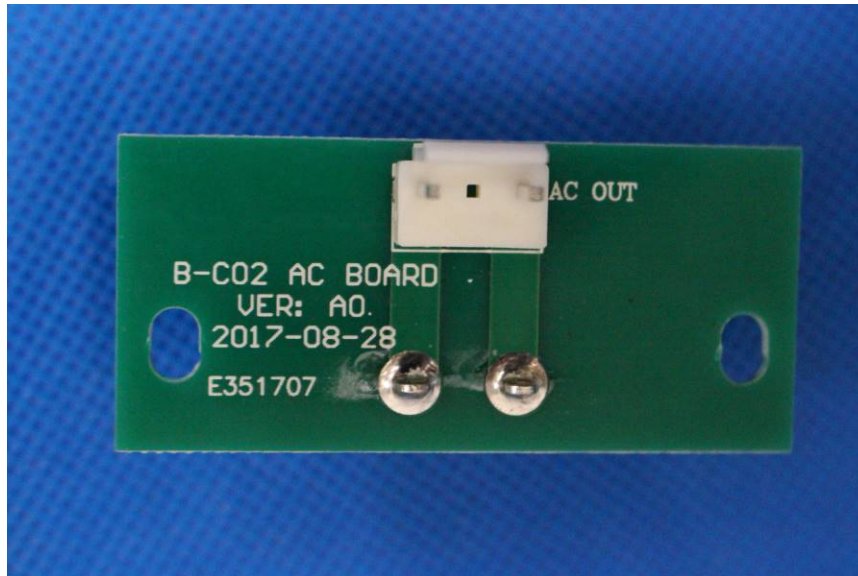
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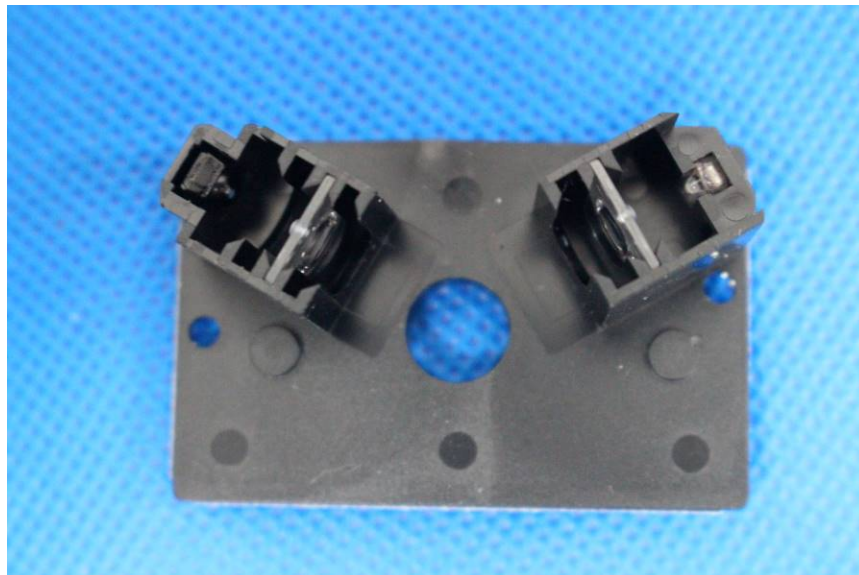
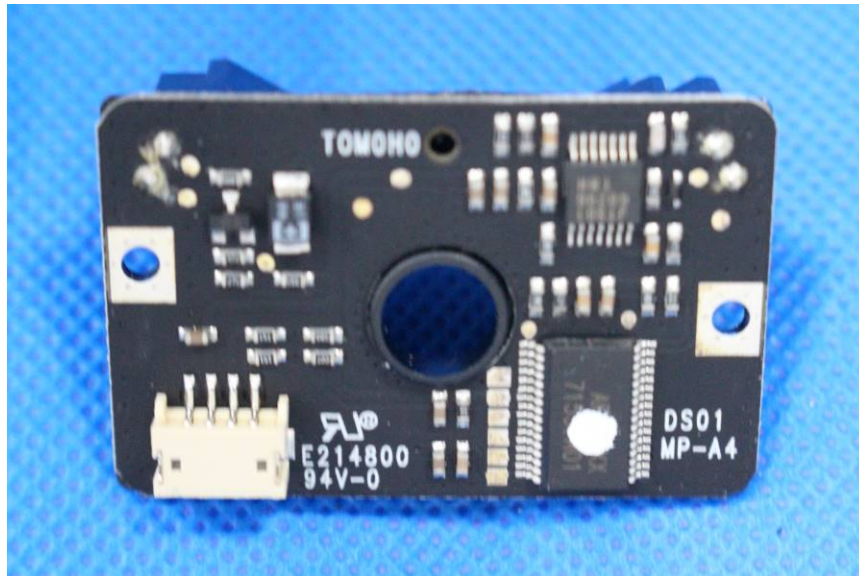
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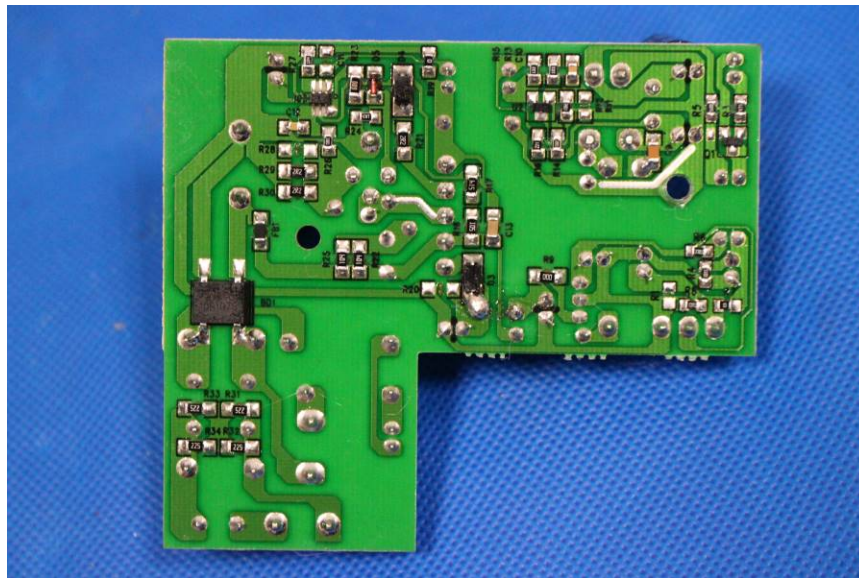
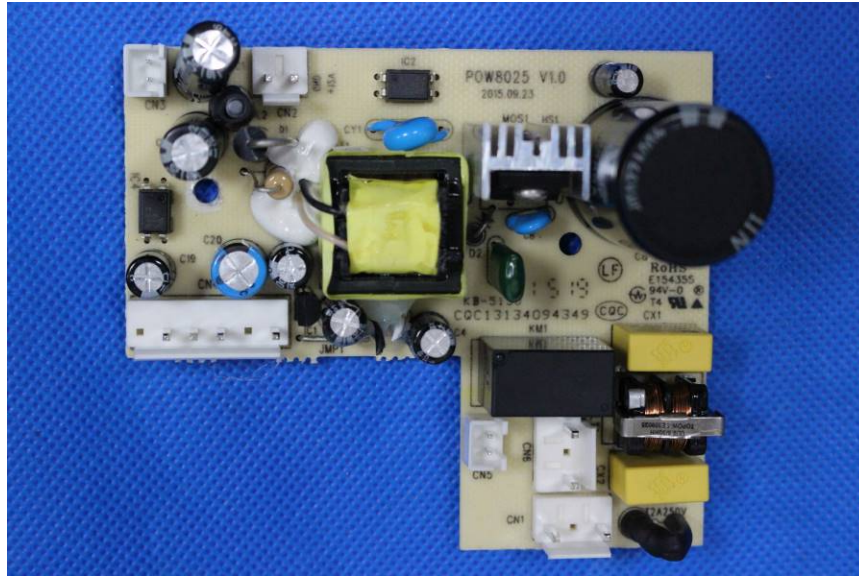
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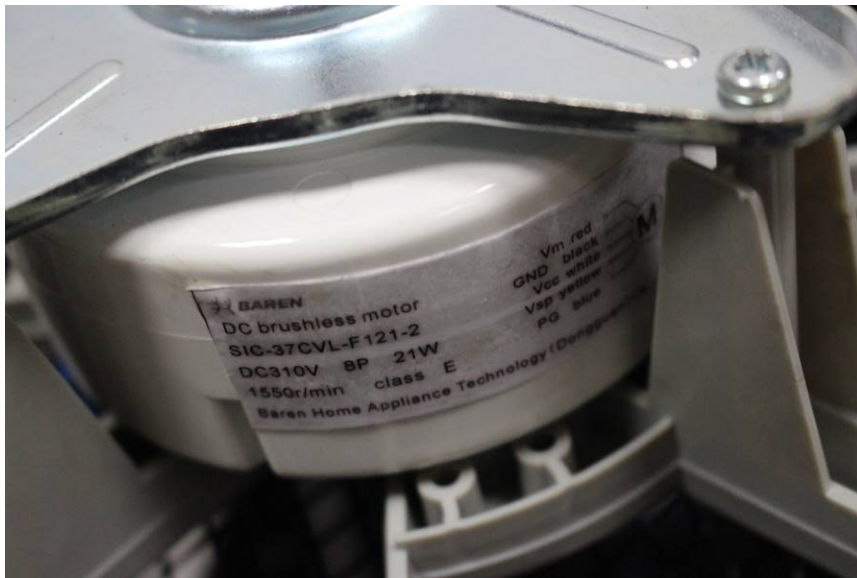
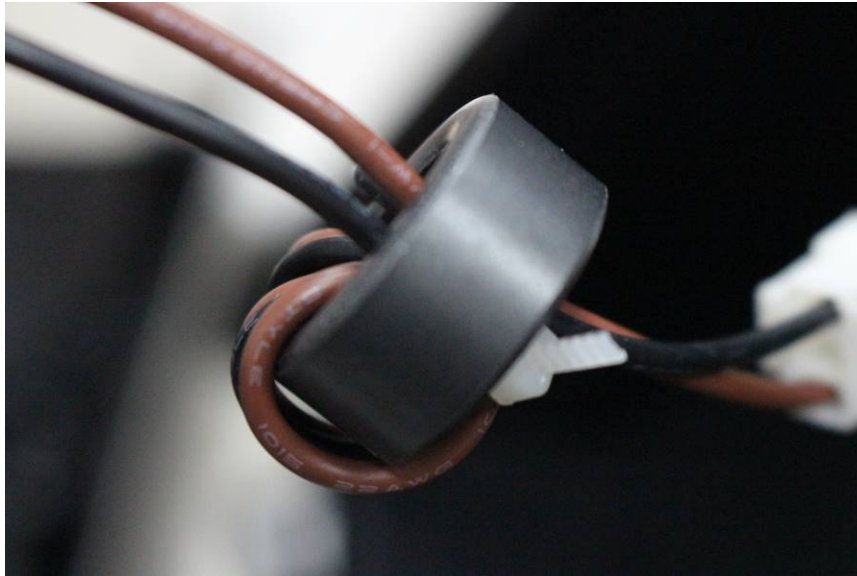
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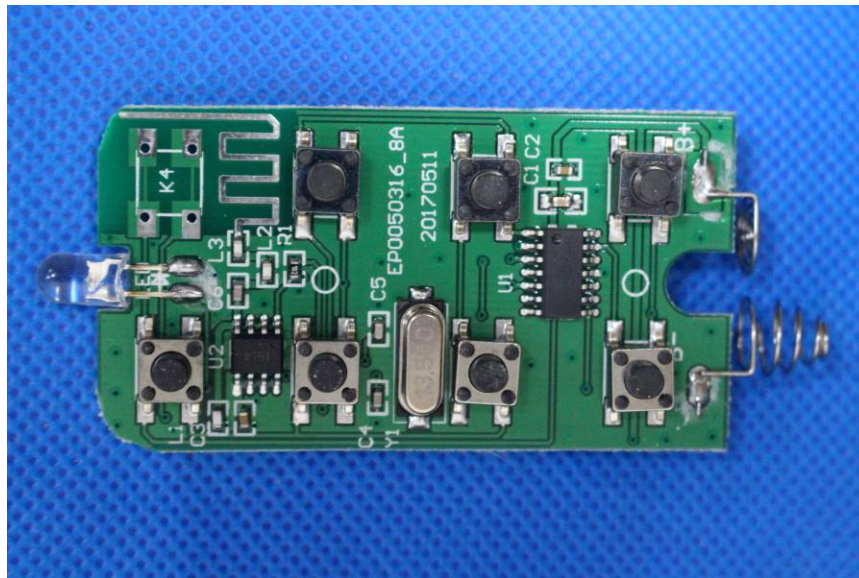
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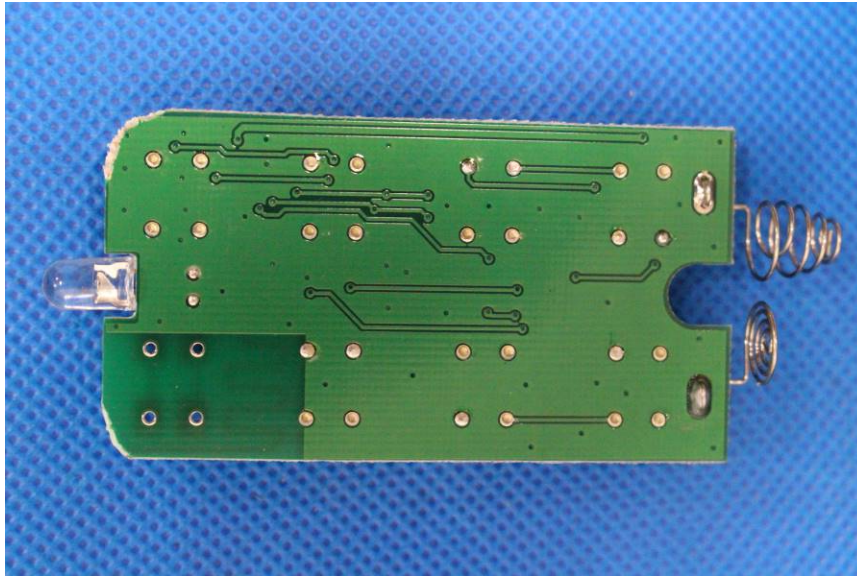
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