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JIEYANG KONGGANG DISTRICT JINGGANG SHENGDALI ELECTRIC APPLIANCE FACTORY



TEST REPORT

Prepared For :	Jieyang Konggang District Jinggang Shengdali Electric Appliance Factory East side of Mingyue Park, Xinglu Community, Jinggang Street, Jieyang Konggang Economic District Guangdong Province
Product Name:	Hair Dryer
Trade Name:	/
Model :	XP-08, 2200-2400W; 110V~ 50Hz
Series model:	XP-3000、XP-2030、XP-01、XP-80000, 1250-1400W; XP-4000、XP-2029、XP-02、XP-90000, 1300-1500W; XP-5000、XP-2028、XP-03、XP-180000, 1500-1800W; XP-6000、XP-2027、XP-04、XP-170000, 1600-1900W; XP-7000、XP-2026、XP-05、XP-160000, 1700-2000W; XP-8000、XP-2025、XP-06、XP-140000, 1800-2100W; XP-9000、XP-2024、XP-07、XP-100000、XP-110000、 XP-120000, 2000-2300W; XP-10000、XP-2023、XP-130000、XP-150000, 2200-2400W; 110V~ 50Hz
Prepared By :	Shenzhen BST Technology Co., Ltd Building No.1,Chaomei Industrial Park, Donghai Road,Yongan Community Yantian Street,Yantian District, Shenzhen, Guangdong, China.
Test Date:	Nov.10,2023 To Nov.17,2023
Date of Report :	Nov.17,2023
Report No.:	BST4482337821117129ER

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TEST REPORT DECLARATION

Applicant	:	Jieyang Konggang District Jinggang Shengdali Electric Appliance Factory
Address	:	East side of Mingyue Park, Xinglu Community, Jinggang Street, Jieyang Konggang Economic District Guangdong Province
EUT Description	:	Hair Dryer
Model Number	:	XP-08, 2200-2400W; 110V~ 50Hz (Note: The series products have the same circuit diagram, PCB layout and functionality. The differences are the model name and appearance, so, we select XP-08, 2200-2400W; 110V~ 50Hz , to test.)

Test Standards:

FCC Part 15:2019

The EUT described above is tested by US to determine the maximum emission levels emanating from the EUT, the maximum emission levels are compared to the FCC Part 15 limits. The measurement results are contained in this test report. and BST Testing (Shenzhen) Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT is to be technically compliant with the FCC requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of BST Testing (Shenzhen) Co., Ltd.

Prepared by :

Assistant

Tested by :



Supervisor

Reviewer :

Approved & Authorized Signer :

Mike Mo/Manager



1. GENERAL INFORMATION

1.1. Report information

- 1.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that BST approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that BST in any way guarantees the later performance of the product/equipment.
- 1.1.2. The sample/s mentioned in this report is/are supplied by Applicant, BST therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 1.1.3. Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through BST, unless the applicant has authorized BST in writing to do so.

1.2. Test Facility

The test site used to collect the data is located on the address of
BST Testing Co.,LTD.

(FCC Registered Test Site Number: 191509) on NO.
24, ZH Park, Nantou, Shenzhen, 518000 China

The Test Site is constructed and calibrated to meet the FCC requirements.

1.3. Test Uncertainty

(95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.2dB
Uncertainty for Radiation emission test (30MHz to 1GHz)	4.0dB



2. PRODUCT DESCRIPTION

2.1. EUT Description

Description	:	Hair Dryer
Applicant	:	Jieyang Konggang District Jिंगgang Shengdali Electric Appliance Factory East side of Mingyue Park, Xinglu Community, Jिंगgang Street, Jieyang Konggang Economic District Guangdong Province
Manufacturer	:	Jieyang Konggang District Jिंगgang Shengdali Electric Appliance Factory East side of Mingyue Park, Xinglu Community, Jिंगgang Street, Jieyang Konggang Economic District Guangdong Province
Model Number	:	XP-08, 2200-2400W; 110V~ 50Hz

2.2. Test Conditions

Temperature: 23 25°C

Relative Humidity:

55 63 %

3. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	Test Results
Conducted disturbance	Pass
Radiated disturbance	Pass

Remark: "N/A" means "Not applicable."



4. TEST EQUIPMENT USED

4.1. For Conducted Emission Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS30	828985/018	Oct. 08, 23	1 Year
2.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	Oct. 08, 23	1 Year
3.	L.I.S.N.	Rohde & Schwarz	ESH2-Z5	834549/005	Oct. 08, 23	1 Year
4.	Conical	Emtek	N/A	N/A	N/A	N/A
5.	Voltage Probe	Schwarzbeck	TK9416	N/A	Oct. 08, 23	1 Year
6.	Coaxial Switch	Anritsu	MP59B	6100214550	Oct. 08, 23	1 Year

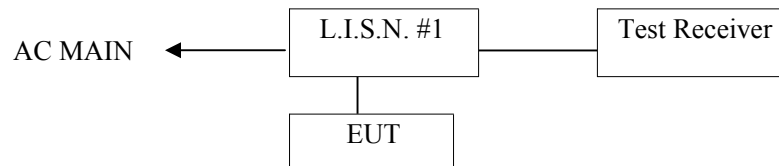
4.2. For Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	ANRITSU	MS2661C	62XP-08, 2200- 2400W; 110V~ 50Hz40915	Oct. 08, 23	1 Year
2.	Test Receiver	Rohde&Schwarz	ESC830	828982/018	Oct. 08, 23	1 Year
3.	Bilog Antenna	Schwarzbeck	VULB9163	142	Oct. 08, 23	1 Year
4.	50 Coaxial Switch	Anritsu Corp	MP59B	6100237248	Oct. 08, 23	1 Year
5.	Cable	Schwarzbeck	AK9513	ACRX1	Oct. 08, 23	1 Year
6.	Cable	Rosenberger	N/A	FR2RX2	Oct. 08, 23	1 Year
7.	Cable	Schwarzbeck	AK9513	CRRX2	Oct. 08, 23	1 Year
8.	Cable	Schwarzbeck	AK9513	CRRX2	Oct. 08, 23	1 Year
9.	Single Phase Power Line Filter	MPE	23332C	N/A	Oct. 08, 23	1 Year
10.	Single Phase Power Line Filter	MPE	23333C	N/A	Oct. 08, 23	1 Year
11.	Signal Generator	HP	864A	3625U00573	Oct. 08, 23	1 Year



5. CONDUCTED EMISSION TEST

5.1. Block Diagram of Test Setup



(EUT: Hair Dryer)

5.2. Test Standard

FCC Part 15: 2019

5.3. Conducted Emission Limit(Class B)

Frequency MHz	Limits dB(V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.

5.4. EUT Configuration on Test

The following equipments are installed on conducted emission test to meet Part 15 requirement and operating in a manner, which tends to maximize its emission characteristics in a normal application.

5.4.1. EUT Information

Model Number : **XP-08, 2200-2400W; 110V~ 50Hz**
Serial Number : /

5.5. Operating Condition of EUT

5.5.1. Setup the EUT and simulators as shown in Section 5.1.

5.5.2. Turn on the power of all equipments.

5.5.3. Let the EUT work in test modes (On) and test it.



5.6. Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver is used to test the emissions form both sides of AC line. The bandwidth of EMI test receiver is set at 9kHz.

The bandwidth of the test receiver is set at 9kHz. and all the scanning waveform are attached within **Appendix I**.

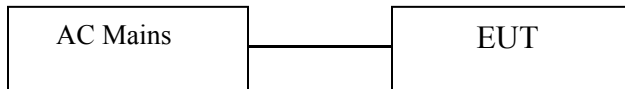
5.7. Test Result

PASS

6. RADIATED EMISSION MEASUREMENT

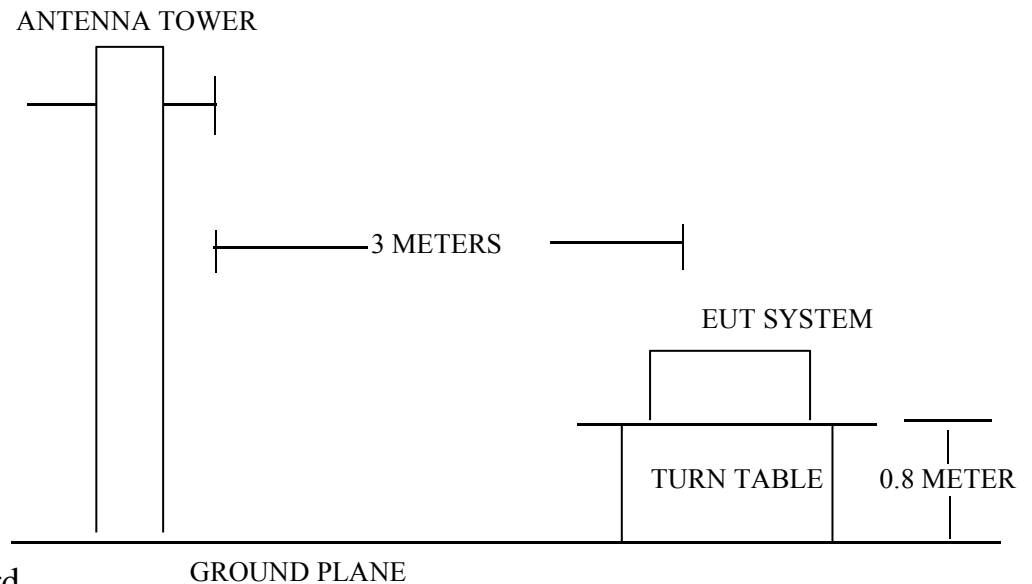
6.1. Block Diagram of EUT Configuration

6.1.1. Block Diagram of connection between the EUT and the simulators



(EUT: Hair Dryer)

6.1.2. Semi-Anechoic Chamber Test Setup Diagram



6.2. Test Standard

FCC Part 15: 2019

6.3. Radiated Emission Limit(Class B)

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dB V/m)
30 ~ 88	3	40.0
88 ~ 216	3	43.5
216 ~ 960	3	46.0
960 ~ 1000	3	54.0

Note:(1) The smaller limit shall apply at the edge between two frequency bands.

(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT or system.



6.4. EUT Configuration on Test

The following equipment are installed on Radiated Emission Measurement to meet the Commission requirements and operating regulations in a manner which tends to maximize Its emission characteristics in normal application.

6.5. Operating Condition of EUT

651. Setup the EUT as shown on Section 6.1.2
- 6.5.2. Turn on the power of all equipments.
- 6.5.3. Let the EUT work in test mode(On) and measure it.

6.6. Test Procedure

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna (calibrated by dipole antenna) are used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement.

The bandwidth setting on the test receiver is 120 KHz.

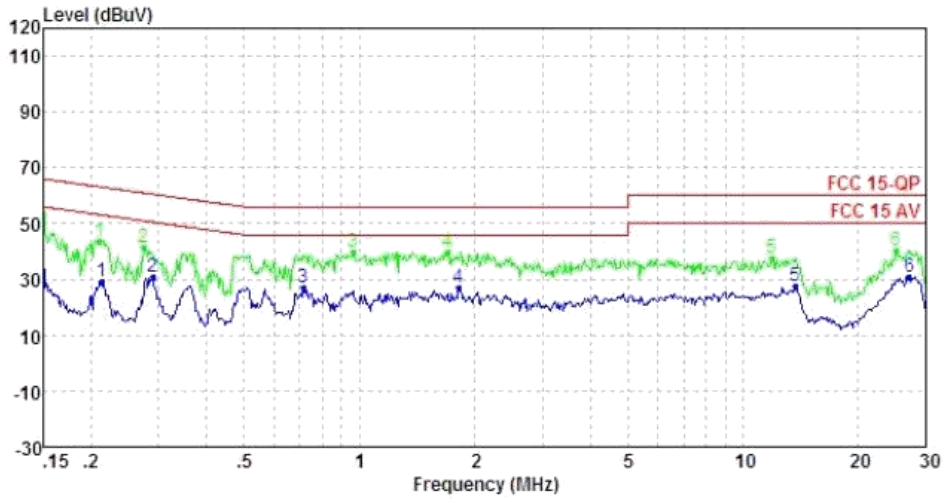
The EUT is tested in Semi-Anechoic Chamber. The frequency range from 30MHz to 1000 MHz is checked. All the test results are listed in Section 6.7. and all the scanning waveform are attached within **Appendix II**.

6.7. Test Result

PASS



APPENDIX I



Site : Shenzhen BST Technology Co.,Ltd.

Condition:

: RBW:9.000KHz VBW:30.000KHz

	Freq	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV	dBuV	dB		
1	0.213	29.4	53.1	-23.7	Average	NEUTRAL
2	0.289	30.7	50.5	-19.8	Average	NEUTRAL
3	0.716	26.7	46.0	-19.3	Average	NEUTRAL
4	1.819	27.1	46.0	-18.9	Average	NEUTRAL
5	13.695	27.6	50.0	-22.4	Average	NEUTRAL
6	27.127	30.9	50.0	-19.1	Average	NEUTRAL

Site : Shenzhen BST Technology Co.,Ltd.

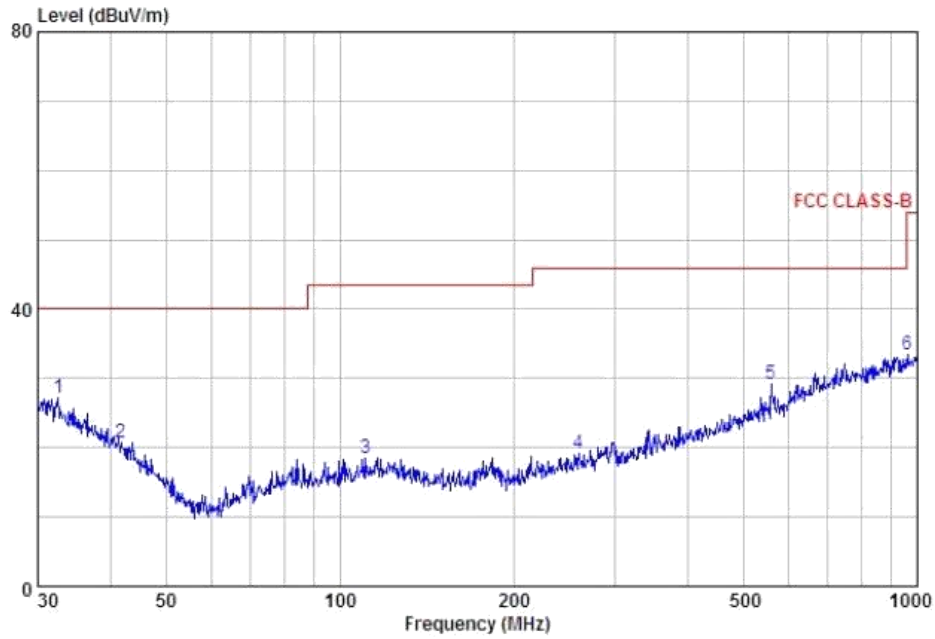
Condition:

: RBW:9.000KHz VBW:30.000KHz

	Freq	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV	dBuV	dB		
1	0.211	43.8	63.2	-19.4	Peak	NEUTRAL
2	0.274	41.3	61.0	-19.7	Peak	NEUTRAL
3	0.963	39.5	56.0	-16.5	Peak	NEUTRAL
4	1.698	39.8	56.0	-16.2	Peak	NEUTRAL
5	11.933	37.4	60.0	-22.6	Peak	NEUTRAL
6	25.055	40.4	60.0	-19.6	Peak	NEUTRAL



APPENDIX II



Condition : FCC CLASS-B 3m HORIZONTAL
 : RBW:120.000KHz VBW:300.000KHz SWT:Auto

	Freq MHz	Level dBuV/m	Limit dBuV/m	Over dB	Remark	Pol/Phase
1 max	32.52	27.24	40.00	-12.76	Peak	HORIZONTAL
2	41.86	20.80	40.00	-19.20	Peak	HORIZONTAL
3	110.96	18.57	43.50	-24.93	Peak	HORIZONTAL
4	259.23	19.21	46.00	-26.79	Peak	HORIZONTAL
5	558.73	29.11	46.00	-16.89	Peak	HORIZONTAL
6	962.16	33.48	54.00	-20.52	Peak	HORIZONTAL



APPENDIX III



Photo 1 General Appearance of the EUT



***** End of Report *****