

Report No.: GZEM200701344202

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FCC ID: 2AWVAKJ120F-A5

RF EXPOSURE EVALUATION REPORT

Application No.: GZEM2007013442CR

Applicant: TCL Household Appliances (Zhongshan) Co., Ltd.

Address of Applicant: 1st-3rd Building, No.38 Fengshuo Road, Nantou Town, Zhongshan City,

Guangdong, China

Manufacturer: TCL Household Appliances (Zhongshan) Co., Ltd.

Address of Manufacturer: 1st-3rd Building, No.38 Fengshuo Road, Nantou Town, Zhongshan City,

Guangdong, China

Factory: TCL Household Appliances (Zhongshan) Co., Ltd.

Address of Factory: 1st-3rd Building, No.38 Fengshuo Road, Nantou Town, Zhongshan City,

Guangdong, China

Equipment Under Test (EUT): FCC ID: 2AWVAKJ120F-A5

EUT Name: Air Purifier

Model No.: KJ120F-A5, BREEVA A1W ¤

Please refer to section 2 of this report which indicates which model was actually

tested and which were electrically identical.

Trade Mark: TCL

Standard(s): 47 CFR Part 1.1307, Part 1.1310

Date of Receipt: 2020-07-01

Date of Test: 2020-07-04 to 2020-07-30

Date of Issue: 2020-08-07

Test Result: Pass*

Kobe Jian EMC Laboratory Manager



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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Revision Record						
Version	Chapter	Date	Modifier	Remark		
01		2020-08-07		Original		

Authorized for issue by:			
Tested By	Jackson hum	2020-07-04 to 2020-07-30	
	Jackson_Yuan /Project Engineer	Date	
Checked By	Riday Liu	2020-08-07	
	Ricky_Liu /Reviewer	Date	



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Test Summary 2

Radio Spectrum Technical Requirement					
Item	Standard	Method	Requirement	Result	
RF Exposure	47 CFR Part 1.1307, Part 1.1310	CFR 47 Part 1.1310	CFR 47 Part 1.1310	Pass	

¤ Declaration of EUT Family Grouping:

Model No.: KJ120F-A5, BREEVA A1W

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the model name.

Therefore only one model BREEVA A1W was evaluated in this report.



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General Information

4.1 Details of E.U.T.

Power Supply: DC 24 V powered by AC/DC adapter as below:

Model: LY015AHU240060:

INPUT: AC 100-240 V, 50/60Hz, 0.5A

OUTPUT: DC 24 V, 0.6 A

Cable: For main unit: DC input ports

For AC/DC adapter:

AC plug;

DC output cables (unshielded, 1.2m)

Antenna Gain: 0 dBi

Antenna Type: PCB Antenna

Channel Spacing: 5MHz

802.11b: DSSS (CCK, DQPSK, DBPSK) Modulation Type:

802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)

Number of Channels: 802.11b/g/n(HT20):11

Operation Frequency: 802.11b/g/n(HT20): 2412MHz to 2462MHz

SN:

Hardware: KJ120F-C1-X V1.1

Firmware: 1.0

Test Software: UI_mptool_1V3 Power Setting: 84 (16dBm max)

Remark: All above parameters are offered by the applicant.

4.2 Description of Support Units

The EUT has been evaluated as an independent unit.

4.3 Evaluation Location

All evaluations were performed at:

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

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

No evaluations were sub-contracted.



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4.4 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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4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None



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5 Radio Spectrum Technical Requirement

5.1 RF Exposure

5.1.1 Test Requirement:

CFR 47 Part 1.1310

Limit:

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in Part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)	
(A) Limits for Occupational/Controlled Exposure					
0.3-3.0	614	1.63	*100	6	
3.0-30	1842/f	4.89/f	*900/f ²	6	
30-300	61.4	0.163	1.0	6	
300-1,500			f/300	6	
1,500-100,000			5	6	
(B) Limits for General Population/Uncontrolled Exposure					
0.3-1.34	614	1.63	*100	30	
1.34-30	824/f	2.19/f	*180/f ²	30	
30-300	27.5	0.073	0.2	30	
300-1,500			f/1500	30	
1,500-100,000			1.0	30	

f = frequency in MHz

According to IEEE C95.3:2002 section 5.5.1.1, The power density S at a point on the axis at a distance d from a transmitting antenna is given by the Friis free-space transmission formula

$$S = \frac{PG}{4\pi d^2}$$

 $S = power density (mW/cm^2)$

P = the net power delivered to the antenna (mW)

G = gain of the antenna in linear scale

d = distance between observation point and center of the radiator (cm)



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^{* =} Plane-wave equivalent power density



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5.1.2 Conclusion

Refer to the report GZEM200701344201, the max. peak output power is 16.02dBm @11B 2442MHz

Mode	Channel	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit
11B	2462MHz	16.02	39.994	0.01232	1.0

So the device is exclusion from SAR test.



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Photographs 6

6.1 **EUT Constructional Details**

Refer to Appendix A - Photographs of EUT Constructional Details for GZEM2007013442CR

-- End of Report--



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