

# **TEST REPORT**

Product Name : CozyAir A3 humidifier

Brand Mark : CozyAir

Model No. : A1320

**FCC ID** : 2A259-A1320

Report Number : BLA-EMC-202109-A2404

Date of Sample Receipt : 2021/9/6

**Date of Test** : 2021/9/6 to 2021/10/14

**Date of Issue** : 2021/10/14

Test Standard : 47 CFR Part 1.1310, Part 2.1093, KDB 447498

Test Result : Pass

### Prepared for:

Beijing Miaoxin Technology Co., Ltd.

022, 1st floor, East Annex Building, Beipu Factory (118 Zhongguancun East Road), West Academy of Agricultural Sciences, Dazhongsi No.2 Food Factory, Haidian District, Beijing City

### Prepared by:

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Date:





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### **REPORT REVISE RECORD**

Version No.	Date	Description
00	2021/10/14	Original





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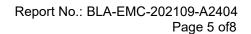


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# 1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1310, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	PASS







2 GENERAL INFORMATION

Applicant	Beijing Miaoxin Technology Co., Ltd.		
Address	022, 1st floor, East Annex Building, Beipu Factory (118 Zhongguancun East Road), West Academy of Agricultural Sciences, Dazhongsi No.2 Food Factory, Haidian District, Beijing City		
Manufacturer	Beijing Miaoxin Technology Co., Ltd.		
Address	022, 1st floor, East Annex Building, Beipu Factory (118 Zhongguancun East Road), West Academy of Agricultural Sciences, Dazhongsi No.2 Food Factory, Haidian District, Beijing City		
Factory	Dongguan JingNuo Environment Science and Technology Inc.		
Address	#2 Limin Road, JinXiaoTang, ZhuTang, FengGang, DongGuan, GuangDong, China		
Product Name	CozyAir A3 humidifier		
Test Model No.	A1320		



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### 3 TEST MODE

TEST MODE	TEST MODE DESCRIPTION		
TX	Keep the EUT in transmitting mode		
Remark:Only the data of the worst mode would be recorded in this report.			

## 4 LABORATORY LOCATION

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co., Ltd.

Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China

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No tests were sub-contracted.

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#### 5 RF EXPOSURE EVALUATION

#### 5.1 RF EXPOSURE COMPLIANCE REQUIREMENT

#### 5.2 LIMITS

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/cm <sup>2</sup> )	Averaging time (minutes)	
(A) Lim	its for Occupational	/Controlled Exposure	es		
0.3–3.0 3.0–30 30–300 300–1500 1500–100,000	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6	
(B) Limits	for General Populati	on/Uncontrolled Exp	osure		
0.3–1.34 1.34–30 30–300 300–1500 1500–100,000	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30	

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout\*G)/(4\* Pi \* R 2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm Pd id the limit of MPE, 1 mW/cm2 . If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

#### 5.3 TEST PROCEDURE

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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#### 5.4 EUT RF EXPOSURE EVALUATION

Antenna Gain: BT/2.4G WIFI:3.68dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

BT: 8-DPSK

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm <sup>2</sup> )	Limit	Result
middle	2441	3.149	2.06	0.00096	1.0	PASS

2.4G WIFI: 802.11b

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm <sup>2</sup> )	Limit	Result
highest	2462	13.636	23.10	0.01072	1.0	PASS

**Note:** Refer to report No. BLA-EMC-202109-A24-02/03 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation Requirement

#### ----END OF REPORT----

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