

RF EXPOSURE REPORT

Applicant	DONGGUAN RUYIJIA ELECTRONIC TECHNOLOGY CO., LTD
Address	Room 101, No. 27, 1st Street, Jianshe Road, Dalingshan Town, DONGGUAN CITY Guangdong Province



Manufacturer or Supplier	Huizhou Zhicheng Electric Appliance Co., LTD
Address	20 meters Road, Tiantou Village, Yuanzhou Town, Boluo County, HUIZHOU CITY Guangdong Province
Product	Electric Fireplace
Brand Name	N/A
Model	RYJ-18A-01
Additional Model & Model Difference	RYJ-18C-01, RYJ-23A-01, etc; See item 1
Date of tests	May 20, 2025 ~ Jun. 03, 2025

☒ **FCC Part 2 (Section 2.1091)**

☒ **KDB 447498 D01 V06**

☒ **IEEE C95.1**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Andrew Sha Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	

Date: Jun. 12, 2025

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Table of Contents

RELEASE CONTROL RECORD	3
1. CERTIFICATION.....	4
2. RF EXPOSURE LIMIT	5
3. MPE CALCULATION FORMULA.....	5
4. CLASSIFICATION	5
5. ANTENNA GAIN	6
6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER.....	6



Test Report No.: FM2504WDG0188

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2504WDG0188	Original release	Jun. 12, 2025

1. CERTIFICATION

FCC ID:	2BOW5-RYJ-18A-01
PRODUCT:	Electric Fireplace
BRAND NAME:	N/A
MODEL NO.:	RYJ-18A-01
ADDITIONAL NO.:	RYJ-18C-01, RYJ-23A-01, RYJ-23C-01, RYJ-26A-01, RYJ-26C-01, RYJ-28A-01, RYJ-28C-01, RYJ-30A-01, RYJ-30C-01, RYJ-32A-01, RYJ-32C-01, RYJ-36A-01, RYJ-36C-01, RYJ-40A-01, RYJ-40C-01, RYJ-42A-01, RYJ-42C-01, RYJ-50A-01, RYJ-50C-01, RYJ-55A-01, RYJ-55C-01, RYJ-60A-01, RYJ-60C-01, RYJ-70A-01, RYJ-70C-01, RYJ-72A-01, RYJ-72C-01, RYJ-80A-01, RYJ-80C-01, RYJ-90A-01, RYJ-90C-01, RYJ-100A-01, RYJ-100C-01
APPLICANT:	DONGGUAN RUYIJIA ELECTRONIC TECHNOLOGY CO., LTD
STANDARDS:	FCC Part 2 (Section 2.1093)
	KDB 447498 D01 V06
	IEEE C95.1

Note: Additional models as above are identical to the test model RYJ-18A-01 except the model name for trading purposes.

2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm ²)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	F/1500	30
1500-100,000	1.0	30

F = Frequency in MHz

3. MPE CALCULATION FORMULA

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	-0.68	PCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
GFSK	2402-2480	-6	± 2	-8	-4
$\pi/4$ DQPSK	2402-2480	-6	± 2	-8	-4

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
GFSK	2441	-6.28
$\pi/4$ DQPSK	2441	-6.64

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2402-2480	-4	-0.68	20	0.00006772	1.0

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