







## RF EXPOSURE REPORT

Applicant	GUANGDONG SYMA MODEL AIRCRAFT INDUSTRIAL CO., LTD
Address	NO.2 West Xingye Road Laimei Industrial Area Chenghai Shantou Guangdong China

Manufacturer or Supplier	GUANGDONG SYMA MODEL AIRCRAFT INDUSTRIAL CO., LTD
Address	NO.2 West Xingye Road Laimei Industrial Area Chenghai Shantou Guangdong China
Product	DRONE
Brand Name	Syma
Model	W22SW
Additional Model & Model Difference	X23SW
Date of tests	Mar. 23, 2023 ~ May 08, 2023

- **⋈** KDB 447498 D01
- **⊠** IEEE C95.1

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

Tested by Eric Fang	Approved by Glyn He
Project Engineer / EMC Department	Assistant Manager / EMC Department

Date: Jun. 14, 2023

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <a href="http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/">http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/</a> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



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## **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2303WDG0184-2	Original release	Jun. 14, 2023

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### 1. CERTIFICATION

FCC ID:	QV7-GC88752-85		
PRODUCT:	DRONE		
BRAND NAME:	Syma		
MODEL NO.:	W22SW		
ADDITIONAL NO.:	X23SW		
TEST SAMPLE:	ST SAMPLE: Engineering Sample		
APPLICANT: GUANGDONG SYMA MODEL AIRCRAFT INDUSTRIAL CO., LTD			
STANDARDS:	FCC Part 2 (Section 2.1091)		
	KDB 447498 D01		
	IEEE C95.1		

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#### 2. RF EXPOSURE LIMIT

#### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)							
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE							
300-1500	300-1500 F/1500 30						
1500-100,000			1.0	30			

F = Frequency in MHz

#### 3. MPE CALCULATION FORMULA

 $Pd = (Pout*G) / (4*pi*r^2)$ 

where

Pd = power density in mW/cm<sup>2</sup>

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

#### 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	-0.76	Dimple Antenna

### 6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
802.11b	2412	9	+-2	7	11
802.11g	2412	7	+-2	5	9
802.11n(HT20)	2412	7	+-2	5	9

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
802.11b	2412	10.96
802.11g	2412	8.41
802.11n(HT20)	2412	8.15

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
2412	11	-0.76	20	0.003969	1.0

--- END ---