



**BUREAU
VERITAS**

TEST REPORT NUMBER: (8524)170-0383(A)

TEST REPORT

| | | | |
|-------------|---|---------|-----|
| Applicant: | GUANGDONG SYMA MODEL AIRCRAFT INDUSTRIAL CO.,LTD | Fax: | --- |
| | | E-mail: | --- |
| Address : | NO.2 WEST XINGYE ROAD LAIMEI INDUSTRIAL AREA CHENG HAI,Shantou, China | | |
| Test Date : | 2024-6-20 to 2024-6-26 | | |

| | |
|----------------------------|---|
| Manufacturer or Supplier : | GUANGDONG SYMA MODEL AIRCRAFT INDUSTRIAL CO.,LTD |
| Address : | NO.2 WEST XINGYE ROAD LAIMEI INDUSTRIAL AREA CHENG HAI,Shantou, China |
| Sample Description: | DRONE |
| Model number: | X26PRO |
| Additional Model : | X26LUM |
| Rated Voltage: | DC6.0V (AAA*4) |
| FCC ID : | QV7-GC88752-102 |

The submitted sample of the above equipment has been tested according to following standard(s)

47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06

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

Assistant Manager

Name: Nick Lung

Date: JUL 24,2024

Bureau Veritas Shenzhen Co., Ltd

11st Floor, Building 4, Hongchuang Science and
Technology Center, Longhua District Shenzhen,
Guangdong Province, China.

Tel: 0755-86135643
Email: <http://www.bureauveritas.com>



TEST REPORT NUMBER: (8524)170-0383(A)

1 Contents

| | Page |
|--|------|
| TEST REPORT | 1 |
| 1 CONTENTS | 2 |
| 2 GENERAL INFORMATION | 3 |
| 2.1 CLIENT INFORMATION | 3 |
| 2.2 GENERAL DESCRIPTION OF EUT | 3 |
| 3 SAR EVALUATION | 4 |
| 3.1 RF EXPOSURE COMPLIANCE REQUIREMENT | 4 |
| 3.1.1 <i>Standard Requirement</i> | 4 |
| 3.1.2 <i>Limits</i> | 4 |
| 3.1.3 <i>EUT RF Exposure</i> | 5 |



TEST REPORT NUMBER: (8524)170-0383(A)

2 General Information

2.1 Client Information

| | |
|--------------------------|---|
| Applicant: | GUANGDONG SYMA MODEL AIRCRAFT INDUSTRIAL CO.,LTD |
| Address of Applicant: | NO.2 WEST XINGYE ROAD LAIMEI INDUSTRIAL AREA CHENG HAI,Shantou, China |
| Manufacturer: | GUANGDONG SYMA MODEL AIRCRAFT INDUSTRIAL CO.,LTD |
| Address of Manufacturer: | NO.2 WEST XINGYE ROAD LAIMEI INDUSTRIAL AREA CHENG HAI,Shantou, China |

2.2 General Description of EUT

| | |
|---------------------|------------------|
| Name: | DRONE |
| Test Model No.: | X26PRO |
| Trade Mark : | N/A |
| Serial No: | --- |
| Software Version: | V1.0 |
| Hardware Version: | V1.0 |
| Frequency Range: | 2410-2472MHz |
| Modulation Type: | GFSK |
| Number of Channels: | 63 |
| Sample Type: | Portable product |
| Antenna Type: | wire antenna |
| Antenna Gain: | 1dBi |
| Power Supply: | DC6.0V (AAA*4) |

Note:Tset Model No.:X26PRO,Additional Model :X26LUM

Their electrical circuit design, layout, components used and internal wiring are identical, Only the color is different.



TEST REPORT NUMBER: (8524)170-0383(A)

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Standard Requirement

IC:According to RSS-102 Issue 5 March 2015

2.5.1 Exemption Limits for Routine Evaluation – SAR Evaluation

SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table 1.

FCC:

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

3.1.2 Limits

FCC:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion



TEST REPORT NUMBER: (8524)170-0383(A)

3.1.3 EUT RF Exposure

FCC:

The worst case refer to report (8524)170-0383 is below:

| Antenna polarization: Horizontal | | |
|----------------------------------|----------------------|-------|
| Frequency (MHz) | Level (dB μ V/m) | Value |
| 2.410 | 91.23 | Peak |

Field strength =91.23dB μ V/m @3m

Ant. gain 1dBi; so Ant numeric gain=1.259

So $pt = \{ [10^{(91.23/20)} / 10^6 \times 3]^2 / 30 / 1.259 \} \times 1000 \text{mW} = 0.3163 \text{mW}$

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})} \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g

Calculated value = $0.3163 / 5 \cdot \sqrt{2.410} = 0.098 < 3$

So the SAR test is not required.