



Report No.: 86260623188

Date: July 6, 2026

Page 1 of 5

RF TEST REPORT

Applicant : Shantou Chenghai Lanxu Toy Factory

Address: Wantou Industrial Zone, Lianxia Town, Chenghai District, Shantou City, Guangdong Province, China

Manufacturer: Shantou Chenghai Lanxu Toy Factory

Address: Wantou Industrial Zone, Lianxia Town, Chenghai District, Shantou City, Guangdong Province, China

EUT Name: Rc ariplane

Trade mark: /

Model: Cs27, Cs28

FCC ID: 2BWZS-CS28

Rating: DC 3V

Sample Received Date: Jun. 23, 2026

Test Date: Jun. 23, 2026~Jul. 6, 2026

Applicable Standards: 47 CFR 2.1093

Test Result Pass

Prepared by: *Jojo Wu*

Jojo Wu/Project Engineer

Approved by: *Bruce Zhang*

Bruce Zhang/Technical Manager

HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: info@hdt-lab.com

Website: www.hdt-lab.com

This report is governed by, and incorporates by reference, the conditions of testing as posted at the date of issuance of this report at <http://www.hdt-lab.com/> 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 15 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.



Report No.:

86260623188

July 6, 2026

Page 2 of 5

Revision History

Version	Date of Issue	Description
V00	Jul. 6, 2026	Original Version

HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: info@hdt-lab.com

Website: www.hdt-lab.com

This report is governed by, and incorporates by reference, the conditions of testing as posted at the date of issuance of this report at <http://www.hdt-lab.com/> 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 15 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.

1. EUT DESCRIPTION

Product:	Rc ariplane
Test Model:	Cs28
Additional Model:	Cs27
Rating:	DC 3V
FCC ID:	2BWZS-CS28
Antenna Type:	PCB Antenna
Antenna Gain:	0.58 dBi
Operation Frequency:	2420-2460MHz
Number of Channels:	3
Modulation Type:	GFSK
Hardware Version:	V1.0
Software Version:	V1.0

Note:

- 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2) Antenna gain was provided by the applicant/ manufacturer, and the applicant/ manufacturer is responsible for its validity.
- 3) The product model is Cs28 the same PCB layout, electronic schematic and Antenna with Cs27. Only the models are difference and paired toy drones are different.
- 4) The test results in the report only apply to the tested sample.

HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: info@hdt-lab.com

Website: www.hdt-lab.com

This report is governed by, and incorporates by reference, the conditions of testing as posted at the date of issuance of this report at <http://www.hdt-lab.com/> 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 15 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.

2. RF EXPOSURE EVALUATION

2.1. Requirement

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1

Standalone 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 Test Exclusion Threshold condition(s), listed below, is (are) satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The minimum test separation distance defined in 4.1 f) is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander. To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified, typically in the SAR measurement or SAR analysis report, by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting are required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops and tablets, etc.

- a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

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

The result is rounded to one decimal place for comparison

The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

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 according to 4.1 f) is applied to determine SAR test exclusion.

HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: info@hdt-lab.com

Website: www.hdt-lab.com

This report is governed by, and incorporates by reference, the conditions of testing as posted at the date of issuance of this report at <http://www.hdt-lab.com/> 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 15 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.

2.2. Tune-up Result

Frequency (MHz)	Max Field strength(dBuV/m)	EIRP (dBm)	Maximum Tune up Power (dBm)
2420	92.38	-2.78	-3±1

Note:

$E = \text{EIRP} - 20 \log D + 104.8$

E=electric field strength in dBuV/m

EIRP=equivalent isotropic radiated power in dBm

D=specified measurement distance in meters(3m)

2.3. Evaluation Result

Mode	Maximum Tune up Power (dBm)	Maximum Power (mW)	Min.distance (mm)	Calc. thresholds	Limit	Result
2.4GHz	-2	0.6310	5	0.1957	3	PASS

2.4. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 D01V06

End of Report

HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: info@hdt-lab.com

Website: www.hdt-lab.com

This report is governed by, and incorporates by reference, the conditions of testing as posted at the date of issuance of this report at <http://www.hdt-lab.com/> 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 15 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.