

RF Exposure Evaluation Report

Application No.: BTEK240308001AE
Version Number: V0
Applicant: Shantou Chenghai Lihuang Plastic Toys Co., Ltd
Address of Applicant: No.1,1 Road Huaihe Industrial Park, Lianxia, Chenghai Shantou, China
Manufacturer: Shantou Chenghai Lihuang Plastic Toys Co., Ltd
Address of Manufacturer: No.1,1 Road Huaihe Industrial Park, Lianxia, Chenghai Shantou, China
Factory: Shantou Chenghai Lihuang Plastic Toys Co., Ltd
Address of Factory: No.1,1 Road Huaihe Industrial Park, Lianxia, Chenghai Shantou, China
Equipment Under Test (EUT):
EUT Name: RC AIRCRAFT
Model No.: X88, X99, X78, X79, X81, X72, X71, X73, X69, X89, X90, X91, X92, X93, X94, X95, X96, X97, X98, X100, X200, X300, X400, X500, X600, DRC190, DRC090
Please refer to section 3 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: N/A
Standard(s) : 47 CFR Part 2 Subpart J Section 2.1093
Date of Receipt: 2024-03-11
Date of Test: 2024-03-11 to 2024-03-25
Date of Issue: 2024-04-12

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Damon Su
EMC Laboratory Manager



Revision Record				
Version	Chapter	Date	Modifier	Remark
V0		2024-04-12		Original

Authorized for issue by:			
			
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	Elma Yang /Project Engineer		
			
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	Carl Yang /Reviewer		



2 Contents

	Page
1 COVER PAGE	1
2 CONTENTS	3
3 GENERAL INFORMATION	4
3.1 DETAILS OF E.U.T.	4
3.2 DESCRIPTION OF SUPPORT UNITS	4
3.3 TEST LOCATION	4
3.4 DEVIATION FROM STANDARDS	4
3.5 ABNORMALITIES FROM STANDARD CONDITIONS	4
4 TEST REQUIREMENT	5
4.1 Test Data and Test Result	5
5 EUT CONSTRUCTIONAL DETAILS	5



3 General Information

3.1 Details of E.U.T.

Power supply:	DC from 3 'AA' batteries
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Channel Spacing:	1 MHz
Date Rate:	1Mbps
Number of Channels:	40
Antenna Type:	linear antenna
Antenna Gain:	0.17 dBi

Remark: The information in this section is provided by the applicant or manufacturer, BANTEK is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Model No.: X88, X99, X78, X79, X81, X72, X71, X73, X69, X89, X90, X91, X92, X93, X94, X95, X96, X97, X98, X100, X200, X300, X400, X500, X600, DRC190, DRC090

Only the model X88 was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions of other models are identical for the above models, with only difference on model No.

3.2 Description of Support Units

The EUT has been tested as an independent unit.

3.3 Test Location

All tests were performed at:

Shenzhen BANTEK Testing Co., Ltd.

A5&A6, Building B1&B2, No.45 Gangtuo Road, Bogang Community, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Tel:0755-2334 4200 Fax: 0755-2334 4200

FCC Registration Number: 264293

Designation Number: CN1356

No tests were sub-contracted.

3.4 Deviation from Standards

None

3.5 Abnormalities from Standard Conditions

None



4 Test Requirement

KDB447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(a)

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

Where

-f(GHz) is the RF channel transmit frequency in GHz

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

-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.

4.1 Test Data and Test Result

Type	Frequency (MHz)	Conducted Power (dBm)	Maximum Tune-up (dBm)	Calculating data	Limit	Result
2.4G	2402	-0.45	0	0.31	3.0	Pass

Note: The exposure evaluation safety distance is 5mm.

5 EUT Constructional Details

Refer to Appendix - External and Internal Appendix EUT Photos.

