

TEST REPORT

Product Name : 3.5 Channel Helicopter
Model Number : DRC262-NOC
FCC ID : 2ACFM1123

Prepared for : SHANTOU CITY DAYE PLASTIC TOYS,CO,LTD
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Report Number : EDG2311150147E00702R
Date(s) of Tests : November 11, 2023 to December 21, 2023
Date of issue : December 21, 2023

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1. TEST RESULT CERTIFICATION

Applicant : SHANTOU CITY DAYE PLASTIC TOYS,CO,LTD
 Address : Baisha Industry Areas, Chenghai Borough, Shantou City, Guangdong Province, CHINA
 EUT : 3.5 Channel Helicopter
 Model Name : DRC262-NOC
 Trademark : VIVITAR

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 15.247(i), § 2.1093	PASS

The above equipment was tested by EMTEK(DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1093.

The test results of this report relate only to the tested sample identified in this report

Date of Test : November 11, 2023 to December 21, 2023

Prepared by : Warren Deng

Warren Deng /Editor

Reviewer : Tim Dong

Tim Dong /Supervisor

Approve & Authorized Signer : 

Sam Lv / Manager



Modified History

Version	Report No.	Revision Date	Summary
	EDG2311150147E00702R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	3.5 Channel Helicopter
Model Number:	DRC262-NOC
Sample:	2#
Device Type:	2.4G WIFI
Data Rate:	802.11b 802.11g 802.11n(20MHz channel bandwidth)
Modulation:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Operating Frequency Range(s) :	2412-2462MHz for 802.11b/g/n(HT20);
Number of Channels:	11 channels for 802.11b/g/n(HT20);
Transmit Power Max:	8.27 dBm(0.0067 W)
Antenna Gain:	Antenna: 1.35 dBi
Power supply:	DC 3.7V from battery
Evaluation applied:	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation

3. Test Requirement:

RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

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
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = Power density in mW/cm²

P_{out} =output power to antenna in mW

G = Numeric gain of the antenna relative to isotropic antenna

π =3.1416

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

P_d the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

4. Measurement Result

Antenna gain:
2.4G: 1.35 dBi

802.11b: Antenna A

Channel	Channel Freq. (MHz)	Output Power (dBm)	E.I.R.P(dBm)	Target Power W/tolerance (dBm)	Max tune up power(dBm) tolerance	Max tuneup power(mW) tolerance	Antenna Gain Numeric	Power Density at R=20cm (mW/cm2)	Power density Limits (mW/cm2)
1	2412	7.89	7.89	7±1	8	6.31	1.36	0.001713	1
6	2437	8.27	8.27	8±1	9	7.94	1.36	0.002156	1
11	2462	8.03	8.03	8±1	9	7.94	1.36	0.002156	1

802.11g: Antenna A

Channel	Channel Freq. (MHz)	Output Power (dBm)	E.I.R.P(dBm)	Target Power W/tolerance (dBm)	Max tune up power(dBm) tolerance	Max tuneup power(mW) tolerance	Antenna Gain Numeric	Power Density at R=20cm (mW/cm2)	Power density Limits (mW/cm2)
1	2.79	2.79	2±1	3	2.00	2.79	1.36	0.000542	1
6	3.54	3.54	3±1	4	2.51	3.54	1.36	0.000682	1
11	3.55	3.55	3±1	4	2.51	3.55	1.36	0.000682	1

802.11n HT20: Antenna A

Channel	Channel Freq. (MHz)	Output Power (dBm)	E.I.R.P(dBm)	Target Power W/tolerance (dBm)	Max tune up power(dBm) tolerance	Max tuneup power(mW) tolerance	Antenna Gain Numeric	Power Density at R=20cm (mW/cm2)	Power density Limits (mW/cm2)
1	2.48	2.48	2±1	3	2.00	2.48	1.36	0.000542	1
6	3.27	3.27	3±1	4	2.51	3.27	1.36	0.000682	1
11	3.33	3.33	3±1	4	2.51	3.33	1.36	0.000682	1

According to KDB 447498, no stand-alone required for WIFI antenna, and no simultaneous SAR measurement is required.

*** End of Report ***