



RADIO TEST REPORT

Report No: STS2206093H02

Issued for

GODOX PHOTO EQUIPMENT CO.LTD

1st to 4th Floor, Building 2/1st to 4th Floor, Building 4,
Yaochuan Industrial Zone, Tangwei Community, Fuhai Street,
Baoan District, Shenzhen 518103, China

Product Name:	KNOWLED RGB CREATIVE LIGHT
Brand Name:	Godox
Model Name:	C5R
Series Model:	N/A
FCC ID:	2ABYN043
Test Standard:	FCC 47CFR §2.1093

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Test Report Certification

Applicant's Name..... : GODOX PHOTO EQUIPMENT CO.LTD
Address : 1st to 4th Floor, Building 2/1st to 4th Floor, Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Baoan District, Shenzhen 518103, China
Manufacturer's Name : GODOX Photo Equipment Co.,Ltd.
Address : 4th Floor of Building 1, 1st to 4th Floor of Building 2, 4th Floor of Building 3, 1st to 4th Floor of Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103, China

Product Description

Product Name..... : KNOWLED RGB CREATIVE LIGHT
Brand Name : Godox
Model Name : C5R
Series Model..... : N/A

Standards : FCC 47CFR §2.1093

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Date of Test..... :

Date of receipt of test item : 25 May 2022

Date (s) of performance of tests : 25 May 2022 ~ 24 June 2022

Date of Issue..... : 24 June 2022

Test Result..... : **Pass**

Testing Engineer :

(Chris Chen)

Technical Manager :

(Sean she)

Authorized Signatory :

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	24 June 2022	STS2206093H02	ALL	Initial Issue





1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	KNOWLED RGB CREATIVE LIGHT	
Brand Name	Godox	
Model Name	C5R	
Series Model	N/A	
Model Difference	N/A	
Product Description	The EUT is KNOWLED RGB CREATIVE LIGHT	
	Operation Frequency:	2402~2480 MHz
	Modulation Type:	GFSK
	Antenna gain:	3.97dBi
	Antenna Designation:	FPC
Rating	USB Charging Input: 5V 2A Wireless Charging Input: 5V 1A	
Battery	Rated Voltage: 3.8V Capacity: 3000mAh	
Hardware Version	20220507W04	
Software Version	V1.0	

1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01



2. FCC 47CFR §2.1093 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in KDB 447498 D01 General RF Exposure Guidance v06 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	
MHz	30	35	40	45	50	mm
150	232	271	310	349	387	SAR Test Exclusion Threshold (mW)
300	164	192	219	246	274	
450	134	157	179	201	224	
835	98	115	131	148	164	
900	95	111	126	142	158	
1500	73	86	98	110	122	
1900	65	76	87	98	109	
2450	57	67	77	86	96	
3600	47	55	63	71	79	
5200	39	46	53	59	66	
5400	39	45	52	58	65	
5800	37	44	50	56	62	



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:

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

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.





2.3 TEST RESULT

Turn up

Mode	Detector	Turn up Power
BLE	AV	1±1dBm

Protocol	Max Turn up Power (dBm)	Max Turn up Power (mW)	ANT Gain(gain of antenna in linear scale)	Power Density (mW/cm ²)	Limit (mW/c m ²)	Result
BLE	2	1.5849	3	0.0157	3	Pass

Note: The Maximum power is less than the limit, complies with the exemption requirements.

*****END OF THE REPORT*****