



RF Exposure Evaluation Report

Application No.: DNT2507240601R7959-14400

Applicant: Shenzhen Green Giant Energy Technology Development Co.,Ltd

Address of Applicant: Room 203,Building B,Minle Science Industrial Park,Minzhi St.,
LonghuaDist.Shenzhen

EUT Description: 4K Wireless Screen Projector (Mobile version)

Model No.: S450

Additional Model(s): /

FCC ID: 2A77D-S450

Power supply: DC 5V

Trade Mark: /

Standards: 47 CFR Part 2.1091
FCC KDB 447498 D01 v06

Date of Receipt: 2025/8/14

Date of Test: 2025/8/15 to 2025/11/22

Date of Issue: 2025/11/23

Test Result: **PASS**

Prepared By: Wayne Lin (Testing Engineer)

Reviewed By: Pengfei Chen (Project Engineer)

Approved By: Yousef Shar (Manager)



Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the



company in writing.

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Nov 09, 2025	Valid	Original Report



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1 General Information

1.1 Test Location

Company:	Dongguan DN Testing Co., Ltd
Address:	No. 1, West Fourth Street, South Xinfu Road, Wusha Liwu, Chang 'an Town, Dongguan City, Guangdong P.R.China
Test engineer:	Wayne Lin

1.2 General Description of EUT

Manufacturer:	Shenzhen Green Giant Energy Technology Development Co.,Ltd
Address of Manufacturer:	Room 203,Building B,Minle Science Industrial Park,Minzhi St., LonghuaDist.Shenzhen
EUT Description:	4K Wireless Screen Projector (Mobile version)
Model No.:	S450
Additional Model(s):	/
Power Supply:	DC 5V
Trade Mark:	/
Hardware Version:	V1.0
Software Version:	V1.0
Chip Type:	AM9421
Serial number	PR2507240601R7961
Sample Type:	☐ Portable Device, ☐ Module, ☒ Mobile Device
Antenna Type:	☐ External, ☒ Integrated
Antenna Ports:	☒ Ant 1, ☐ Ant 2, ☐ Ant 3
Antenna Gain:	☒ Provided by applicant
	2.4G Ant1:3.30dBi 5G Ant1:3.55dBi
Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, DNT is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. *All models are just color differences, motherboard, PCB circuit board, chip, electronic components, appearance is all the same.	



1.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

Lab A:

• **FCC, USA**

Designation Number: CN1348

• **A2LA (Certificate No. 7050.01)**

DONGGUAN DN TESTING CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 7050.01.

• **Innovation, Science and Economic Development Canada**

DONGGUAN DN TESTING CO., LTD. EMC Laboratory has been recognized by ISED as an accredited testing laboratory. CAB identifier is CN0149.

IC#: 30755.

1.4 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	20dB Emission Bandwidth	$\pm 0.0196\%$
2	Carrier Frequency Separation	$\pm 1.9\%$
3	Number of Hopping Channel	$\pm 1.9\%$
4	Time of Occupancy	$\pm 0.028\%$
5	Max Peak Conducted Output Power	± 0.743 dB
6	Band-edge Spurious Emission	± 1.328 dB
7	Conducted RF Spurious Emission	9KHz-1GHz: ± 0.746 dB 1GHz-26GHz: ± 1.328 dB

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0 dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8 dB (Below 1GHz)
		± 4.8 dB (1GHz to 6GHz)
		± 4.5 dB (6GHz to 18GHz)
		± 5.02 dB (Above 18GHz)



2 RF Exposure Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Test Procedure

2.1.2 Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30
F=frequency in MHz *=Plane-wave equivalent power density RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).				

Friis Formula

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 = gain of antenna in linear scale

π = 3.1416

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

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

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually

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**2.1.3 EUT RF Exposure Evaluation****2.4GWIFI**

Mode	Fre (MHz)	Conducted output Power (dBm)	Target power (dBm)
11B	2412	-4.45	-4±1
	2437	-3.91	-3±1
	2462	-4.07	-4±1
11G	2412	-0.34	0±1
	2437	-0.40	0±1
	2462	-0.45	0±1
11N20	2412	-0.35	0±1
	2437	-0.63	0±1
	2462	-0.36	0±1

5GWIIFI

Mode	Fre (MHz)	Conducted output Power (dBm)	Target power (dBm)
11A	5180	-0.57	0±1
	5200	-0.61	0±1
	5240	-0.51	0±1
	5745	-1.39	-1±1
	5785	-0.41	0±1
	5825	-1.23	-1±1
11N20	5180	-0.65	0±1
	5200	-0.19	0±1
	5240	-1.09	-1±1
	5745	-0.99	0±1
	5785	-0.48	0±1
	5825	-0.69	0±1



The Worst Mode	Antenna	output power (dBm)	Target power (dBm)	MAX Target power (dBm)	Antenna gain		Power Density (S) (mW /cm²)	Limited of Power Density (S) (mW /cm²)	Test Result	Distance (cm)
					(dBi)	(Linear)				
2.4G Band										
11N20(2.4G)	Ant1	-0.34	0±1	1	3.30	2.1380	0.0005	1	Complies	20
11N20(5G)	Ant1	-0.19	0±1	1	3.55	2.2646	0.0006	1	Complies	20

Note: The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

The End Report