

Page 1 of 9

Report No.: D211108006-2

RF Exposure evaluation report

Applicant:	Ugreen Group Limited					
Address of Applicant:	UGREEN Building, Longcheng Industrial Park, Longguanxi Road, Longhua, Shenzhen, Guangdong, 518000, China					
Manufacturer:	Ugreen Group Limited					
Address of Manufacturer:	UGREEN Building, Longcheng Industrial Park, Longguanxi Road, Longhua, Shenzhen, Guangdong, 518000, China					
Product name:	Wireless Car Charger					
Model:	CD256, 40118					
Rating(s):	Input: 5Vdc, 2A; 9Vdc, 2A; 12Vdc, 2A Output Power: 15W Max.					
Trademark:	UGREEN					
Standards:	FCC Part 1(1.1310) and Part 2(2.1091), KDB 680106 D01 RF Exposure Wireless Charging					
FCC ID:	2AQI5-CD256					
Data of Receipt:	2021-11-08					
Date of Test:	2021-11-08~2021-11-26					
Date of Issue:	2021-11-26					
Test Result	Pass*					

^{*} In the configuration tested, the test item complied with the standards specified above.

Authorized for issue by:

Nov. 26, 2021 Chivas Tsang
Project Engineer

Date

Name/Position

Reviewed by:

Nov. 26, 2021

Victor Meng
Project Manager

Date

Name/Position

Signature

Date

Name/Position

Signature



Page 2 of 9 Report No.: D211108006-2

Possible test case verdicts:

test case does not apply to the test object ..: N/A

test object does meet the requirement P (Pass)

test object does not meet the requirement ..: F (Fail)

Testing Laboratory information:

Testing Laboratory Name: ITL Co., Ltd

Guangdong, 523757 P.R.C.

Testing location : Same as above

Tel : 0086-769-39001678

Fax : 0086-20-62824387

E-mail : itl@i-testlab.com

General remarks:

The test results presented in this report relate only to the object tested.

The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

This report would be invalid test report without all the signatures of testing technician and approver. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

General product information:

The models CD256 and 40118 are indentical to each other except the model name.

All tests were performed on the model CD256 as representative.

Report No.: D211108006-2



1 Contents

		Pa	age
1	С	ONTENTS	3
2		ENERAL INFORMATION	
_	J		
	2.1	CLIENT INFORMATION	4
	2.2	GENERAL DESCRIPTION OF E.U.T.	4
	2.3	DETAILS OF E.U.T.	4
	2.4	DESCRIPTION OF SUPPORT UNITS	4
	2.5	TEST LOCATION	5
	2.6	DEVIATION FROM STANDARDS	5
	2.7	ABNORMALITIES FROM STANDARD CONDITIONS	5
	2.8	OTHER INFORMATION REQUESTED BY THE CUSTOMER	
	2.9	TEST FACILITY	
3	ь	F EXPOSURE EVALUATION	4
J	K		
	3.1		
	3.1.1	STANDARD REQUIREMENT	6
		EUT RF Exposure	

Page 4 of 9 Report No.: D211108006-2

2 General Information

2.1 Client Information

Applicant: Ugreen Group Limited

Address of Applicant: UGREEN Building, Longcheng Industrial Park, Longguanxi Road, Longhua,

Shenzhen, Guangdong, 518000, China

2.2 General Description of E.U.T.

Name: Wireless Car Charger

Model No.: CD256
Trade Mark: UGREEN
Operating Frequency: 110-205KHz

Type of Modulation: FSK

Antenna Reference Coil Antenna with 0dBi peak Gain Function: Magnetic Wireless Car Charger

2.3 Details of E.U.T.

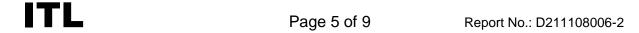
EUT Power Supply: 120Vac, 60Hz (For adapter)

Test mode: Mode 1: base station in stand-by, idle mode

Mode 2: Communication and charging

2.4 Description of Support Units

The EUT has been tested as an independent unit for fixed frequency by testing lab.



2.5 Test Location

All tests were performed at:

ITL Co., Ltd

No. 8 Jinqianling Street 5, Huangjiang Town, Dongguan, Guangdong, 523757 P.R.C.

0086-769-39001678

itl@i-testlab.com

No tests were sub-contracted.

2.6 Deviation from Standards

Biconical and log periodic antennas were used instead of dipole antennas.

2.7 Abnormalities from Standard Conditions

None.

2.8 Other Information Requested by the Customer

None.

2.9 Test Facility

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

CNAS Lab code:L9342

• FCC Designation No.:CN5035

IC Registration NO.: 12593A

• NVLAP LAB CODE: 600199-0

Page 6 of 9

Report No.: D211108006-2



3 RF Exposure Evaluation

3.1 RF Exposure Compliance Requirement

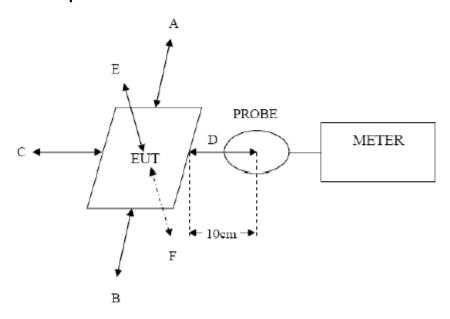
3.1.1 Standard Requirement

FCC Part 1(1.1310) and Part 2(2.1091), KDB 680106 D01 RF Exposure Wireless Charging App v03r01

Test configuration

- 1, The field strength of both E-field and H-field was measured at 10cm using the equipment list above for determining compliance with the MPE requirements of FCC Part 1.1310.
- 2, The RF power density was measured at Under maximum load test
- 3, Maximum E-field and H-field measurements were made 10cm from each side of the EUT. Along the side of the EUT and still 10cm away from the edge of the EUT, the field probes were positioned at the location where there is maximum field strength. The maximum E-field and H-field is reported below.
- 4, This device uses a wireless charging circuit for power transfer operating at the frequency of 100-205kHz. Thus, the 300kHz limits were used: E-field Limit = 614 (V/m); H-field limit = 1.63 (A/m).

Test Setup



Report No.: D211108006-2



Limits

Frequency range Electric field strength (V/m)		Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
	(A) Limits for Occ	cupational/Controlled Ex	posures	
0.3-3.0	6			
3.0-30	1842/f	4.89/f	*(900/f²)	6
30-300	61.4	0.163	1.0	6
300-1500	1	1	f/300	6
1500-100,000	1	1	5	6
	(B) Limits for Genera	l Population/Uncontrolle	d Exposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f²)	30
30-300	27.5	0.073	0.2	30
300-1500	1	1	f/1500	30
1500-100,000	1	1	1.0	30

F=frequency in MHz

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).

3.1.2 EUT RF Exposure

This device has been tested the worst status of full load and the device has been tested with mobile phone at zero charge, intermediate charge, and full charge.

Mode: Max load

E-Filed Strength at 10cm from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position	Test Position	Test Position	Test Position	Test Position	Test Position	Limits Test (V/m)
(1411 12)	•	_	3	7	5	•	(4/111)
0.11-0.205	0.87	1.05	1.12	0.86	1.01	0.80	614

H-Filed Strength at 10cm from the edges surrounding the EUT (A/m)

Frequency	Test	Test	Test	Test	Test	Test	Limits
Range	Position	Position	Position	Position	Position	Position	Test
(MHz)	1	2	3	4	5	6	(A/m)
0.11-0.205	0.57	0.53	0.52	0.56	0.51	0.56	1.63

^{*=}Plane-wave equivalent power density



Page 8 of 9 Report No.: D211108006-2

Mode: Mid load

E-Filed Strength at 10cm from the edges surrounding the EUT (V/m)

Frequency	Test	Test	Test	Test	Test	Test	Limits
Range (MHz)	Position 1	Position 2	Position 3	Position 4	Position 5	Position 6	Test (V/m)
0.11-0.205	0.72	0.87	0.91	0.83	0.93	0.77	614

H-Filed Strength at 10cm from the edges surrounding the EUT (A/m)

Frequency	Test	Test	Test	Test	Test	Test	Limits
Range	Position	Position	Position	Position	Position	Position	Test
(MHz)	1	2	3	4	5	6	(A/m)
0.11-0.205	0.48	0.47	0.45	0.51	0.47	0.50	

Mode: Min load

E-Filed Strength at 10cm from the edges surrounding the EUT (V/m)

Frequency	Test	Test	Test	Test	Test	Test	Limits
Range	Position	Position	Position	Position	Position	Position	Test
(MHz)	1	2	3	4	5	6	(V/m)
0.11-0.205	0.58	0.67	0.71	0.63	0.76	0.61	614

H-Filed Strength at 10cm from the edges surrounding the EUT (A/m)

Frequency	Test	Test	Test	Test	Test	Test	Limits
Range	Position	Position	Position	Position	Position	Position	Test
(MHz)	1	2	3	4	5	6	(A/m)
0.11-0.205	0.38	0.41	0.43	0.41	0.39	0.43	1.63

Manufacturer declares that this product is not to be used as a portable device.

Report No.: D211108006-2



Photographs of test set-up



-- End --