

RF Exposure Evaluation

FCC ID: 2BGDC-DP-P600B

Measuring Standard

FCC Part 1(1.1310) and Part 2(2.1091)

KDB 680106 D01 Wireless Power Transfer v04

Test Configuration

The test distance of Position A,B,C,D,E is 20cm using the equipment list above for determining compliance with the MPE requirements of FCC Part 1.1310.

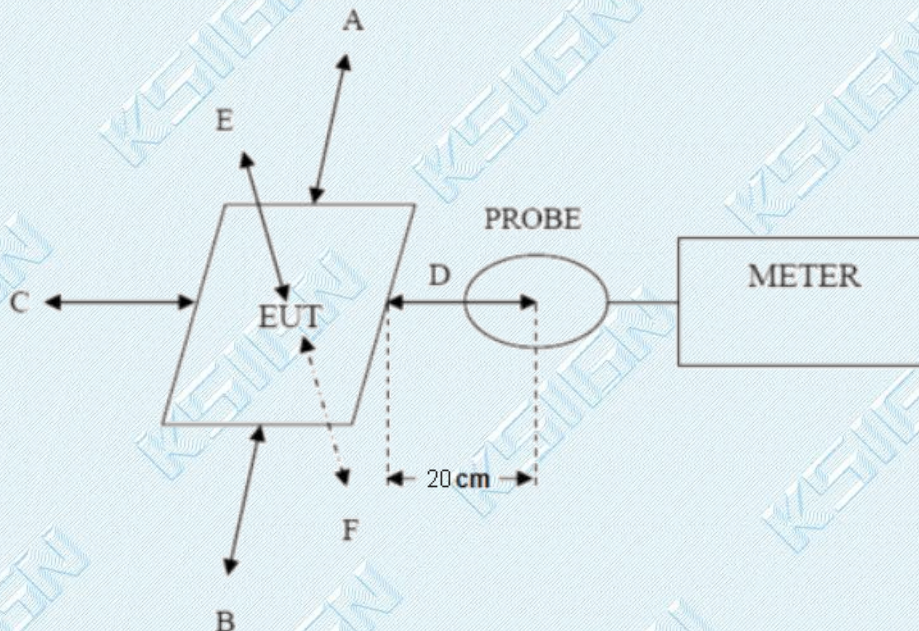
The RF power density was measured at Under maximum load test.

The field probes were positioned at the location where there is maximum field strength. The maximum E-field and H-field is reported below.

This device uses a wireless charging circuit for power transfer operating at the frequency of 115KHz -205kHz.

Thus, the 300kHz limits were used: E-field Limit = 614 (V/m); H-field limit = 1.63 (A/m).

TEST Setup



TEST 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 Exposure				
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
300-1,500			f/300	6
1,500-100,000			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
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

Measuring Device and Test Equipment

Description	Manufacturer	Model	S/N	Cal. Until
Probe FHP(1Hz-400KHz)	Narda Safety Test Solutions GmbH	ELT-400	Q-0731/M-2 177	2025.01.28
PHONE	Apple	iPhone 11	N/A	N/A

TRF No. FCC RF Exposure R4

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujia Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

TEST MODE

MODE	TEST MODE DESCRIPTION
1	Wireless charging mode(Full load)
2	Wireless charging mode(Half load)
3	Wireless charging mode(Null load)

TRF No. FCC RF Exposure R4

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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TEST RESULT

☒ Passed

☐ Not Applicable

EUT	Portable Power Station	Model Name. :	DP-P600B
Pressure:	1011hPa	Test Date:	2024-08-21

Test Data:

EUT Side	Frequency Range (KHz)	Probe A (uT)	Probe B (uT)	Probe C (uT)	Probe D (uT)	Probe E (uT)
Full load	115~205	0.237	0.236	0.231	0.232	0.247
Half load	115~205	0.234	0.235	0.231	0.229	0.246
Null load	115~205	0.234	0.234	0.229	0.226	0.243

EUT Side	Frequency Range (KHz)	Probe A (A/m)	Probe B (A/m)	Probe C (A/m)	Probe D (A/m)	Probe E (A/m)	Limits (A/m)	50% Limit (A/m)
Full load	115~205	0.188	0.187	0.183	0.184	0.196	1.63	0.815
Half load	115~205	0.186	0.187	0.183	0.182	0.195		
Null load	115~205	0.186	0.186	0.182	0.179	0.193		

Remark:

- The device meets the mobile RF exposure limit at a 20cm separation distance as specified in §2.1091 of the FCC Rules.
- Result(uT)=Result1.26*(A/m)

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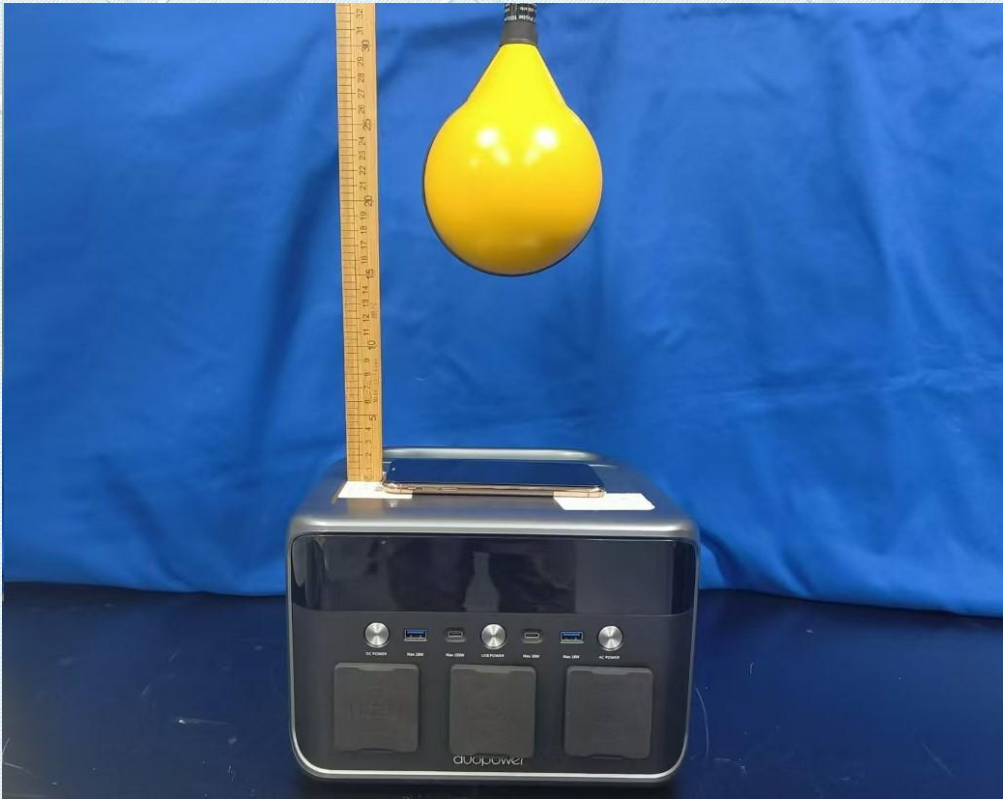
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The EUT does comply with item 5.2 of KDB 680106 D01v03 as follows table

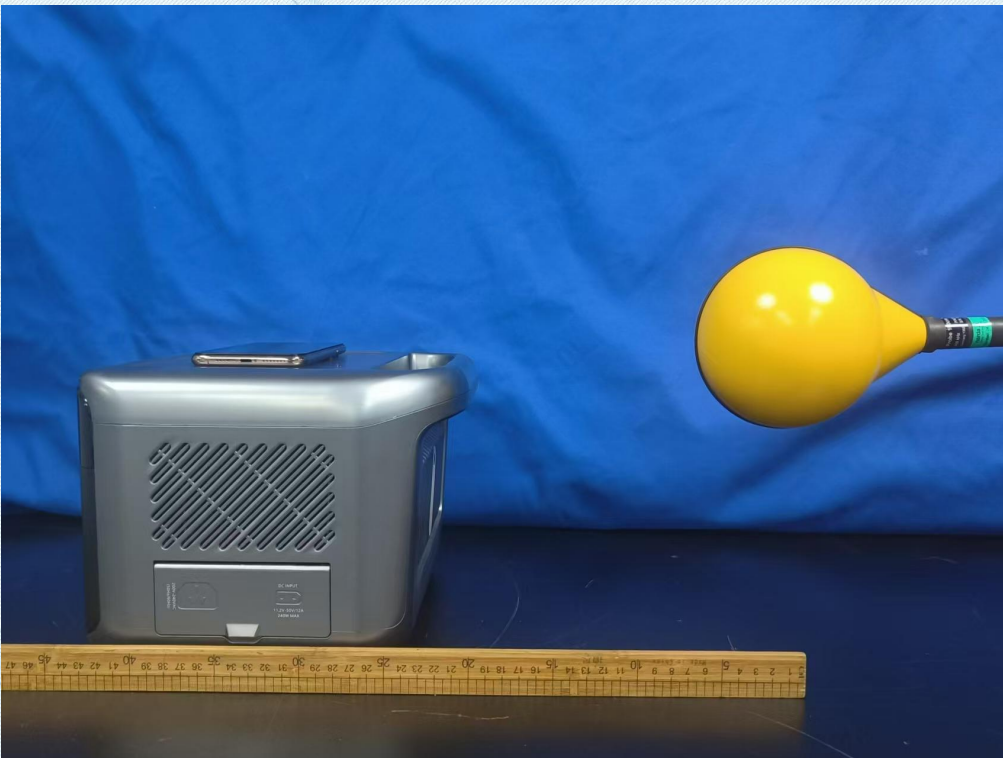
Requirements of KDB 680106 D01	Yes/No	Description
(1) Power transfer frequency is less than 1 MHz	Yes	The EUT frequency range is: 115kHz-205kHz
(2) Output power from each primary coil is less than or equal to 15 watts.	Yes	The output power is 15W
(3) The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.	Yes	EUT has only one coil
(4) Client device is placed directly in contact with the transmitter.	Yes	EUT can be directly charged
(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Yes	EUT is a mobile device
(6) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.	Yes	EUT coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.demonstrated to be less than 50% of the applicable MPE limit.

PHOTOGRAPHS OF TEST SETUP

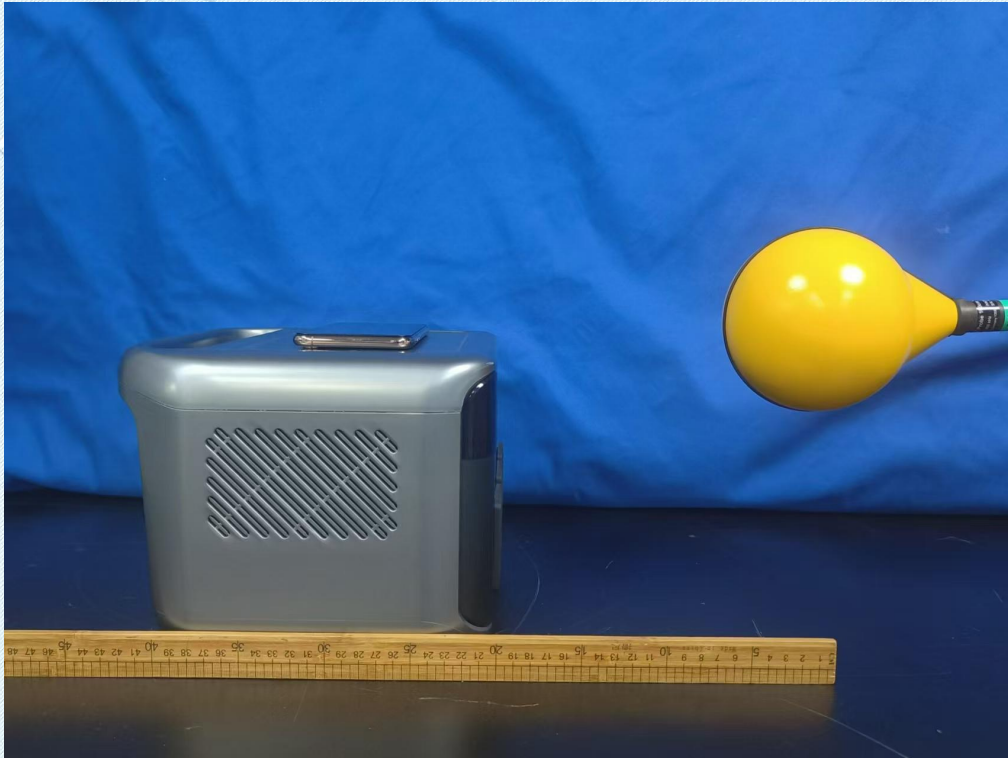
Position E



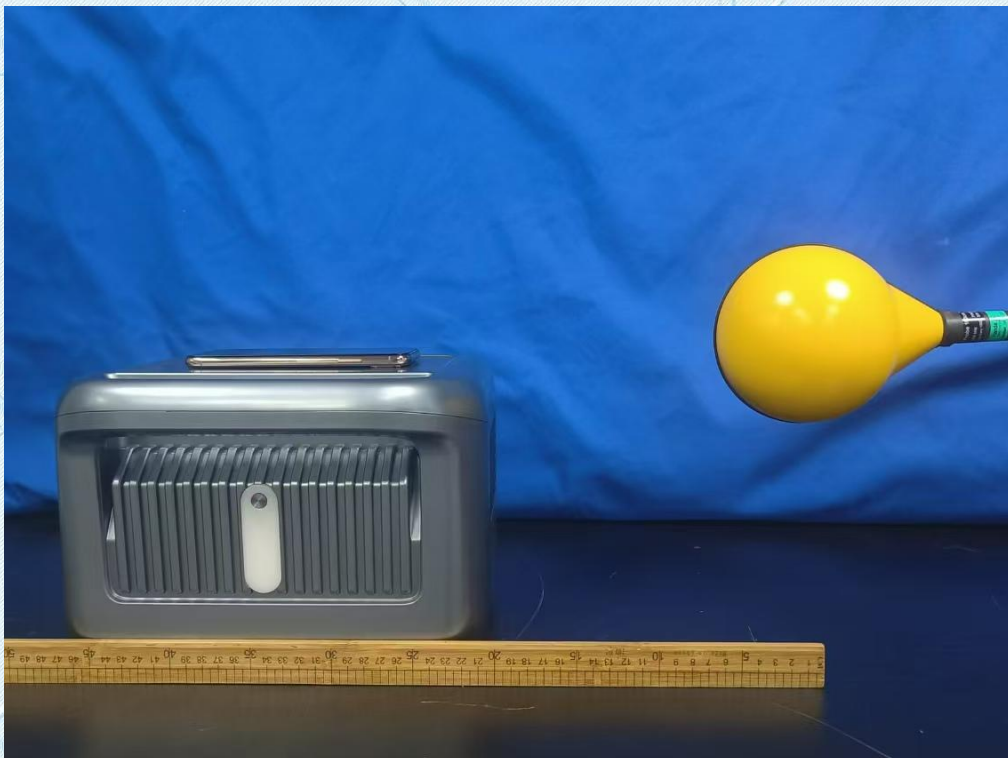
Position A



Position B



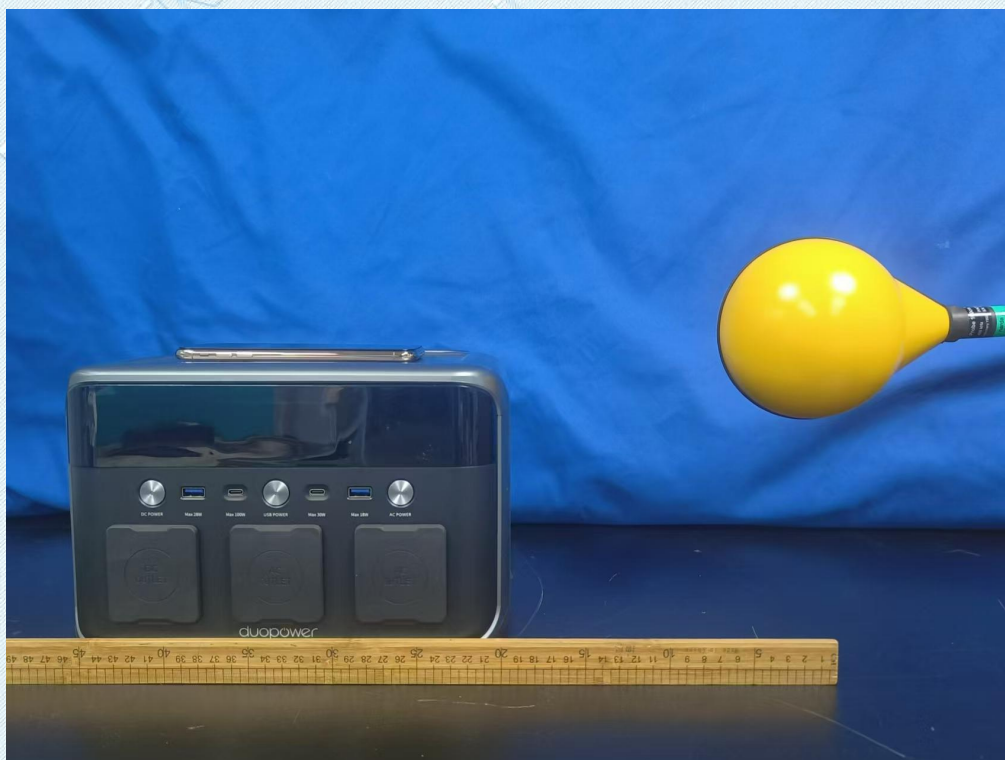
Position C



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--THE END--