

RF Exposure Evaluation

FCC ID: 2BGDC-DP-P1200F

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.

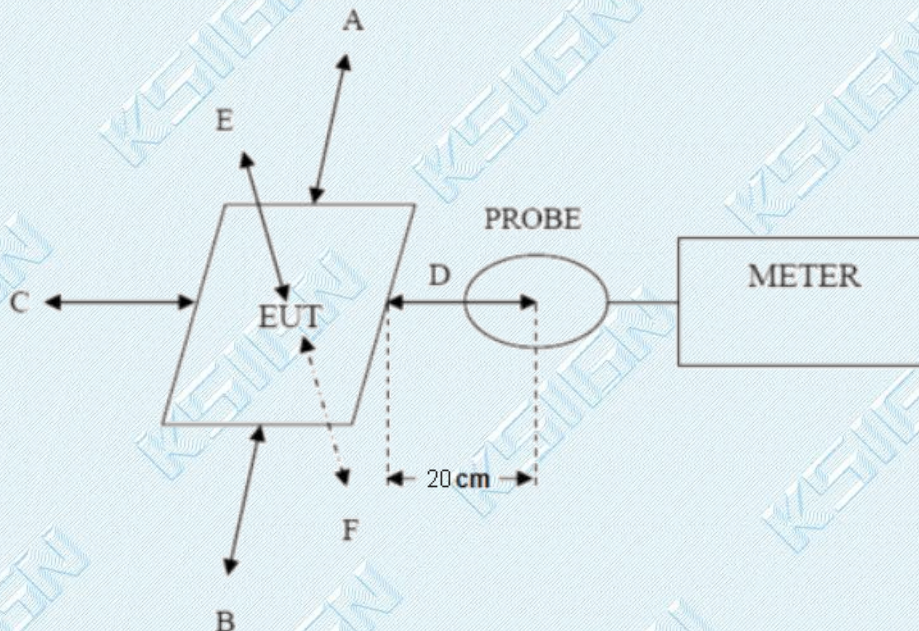
The RF power density was measured at Under maximum load test.

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



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 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

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TEST MODE

No.	Title	Description of Mode
Test Mode1	AC Charging+Wireless charge output 99% powe(15W)	N/A
Test Mode2	AC Charging+Wireless charge output 50% powe(15W)	N/A
Test Mode3	AC Charging+Wireless charge output 1% powe(15W)	N/A
Test Mode4	AC Charging+Wireless charge output 99% powe(10W)	N/A
Test Mode5	AC Charging+Wireless charge output 50% powe(10W)	N/A
Test Mode6	AC Charging+Wireless charge output 1% powe(10W)	N/A
Test Mode7	AC Charging+Wireless charge output 99% powe(7.5W)	N/A
Test Mode8	AC Charging+Wireless charge output 50% powe(7.5W)	N/A
Test Mode9	AC Charging+Wireless charge output 1% powe(7.5W)	N/A
Test Mode10	AC Charging+Wireless charge output 99% powe(5W)	N/A
Test Mode11	AC Charging+Wireless charge output 50% powe(5W)	N/A
Test Mode12	AC Charging+Wireless charge output 1% powe(5W)	N/A
Test Mode13	Wireless charge output 99% powe(15W)	N/A
Test Mode14	Wireless charge output 50% powe(15W)	N/A
Test Mode15	Wireless charge output 1% powe(15W)	N/A
Test Mode16	Wireless charge output 99% powe(10W)	N/A
Test Mode17	Wireless charge output 50% powe(10W)	N/A
Test Mode18	Wireless charge output 1% powe(10W)	N/A
Test Mode19	Wireless charge output 99% powe(7.5W)	N/A
Test Mode20	Wireless charge output 50% powe(7.5W)	N/A
Test Mode21	Wireless charge output 1% powe(7.5W)	N/A
Test Mode22	Wireless charge output 99% powe(5W)	N/A
Test Mode23	Wireless charge output 50% powe(5W)	N/A
Test Mode24	Wireless charge output 1% powe(5W)	N/A
Note: All test modes were pre-tested, The Mode 1 was the worst case and only the data of the worst case record in this report.		

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TEST RESULT

☒ Passed

☐ Not Applicable

EUT	Portable Power Station	Model Name. :	DP-P1200F
Pressure:	1011hPa	Test Date:	2024-08-21

Test Data:

AC Charging+Wireless charge mode 15W (Worst case)

EUT Side	Frequency Range (KHz)	Probe A (uT)	Probe B (uT)	Probe C (uT)	Probe D (uT)	Probe E (uT)
99% powe(15W)	115~205	0.235	0.236	0.231	0.230	0.248
50% powe(15W)	115~205	0.234	0.234	0.228	0.229	0.245
1% powe(15W)	115~205	0.233	0.232	0.225	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)
99% powe(15W)	115~205	0.187	0.187	0.183	0.183	0.197	1.63	0.815
50% powe(15W)	115~205	0.186	0.186	0.181	0.182	0.194		
1% powe(15W)	115~205	0.185	0.184	0.179	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.
- Only the Mode1 worst case modes is recorded in the report.
- 3.1 A/m=1.26uT

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The EUT does comply with item 5.2 of KDB 680106 D01 v04 as follows table

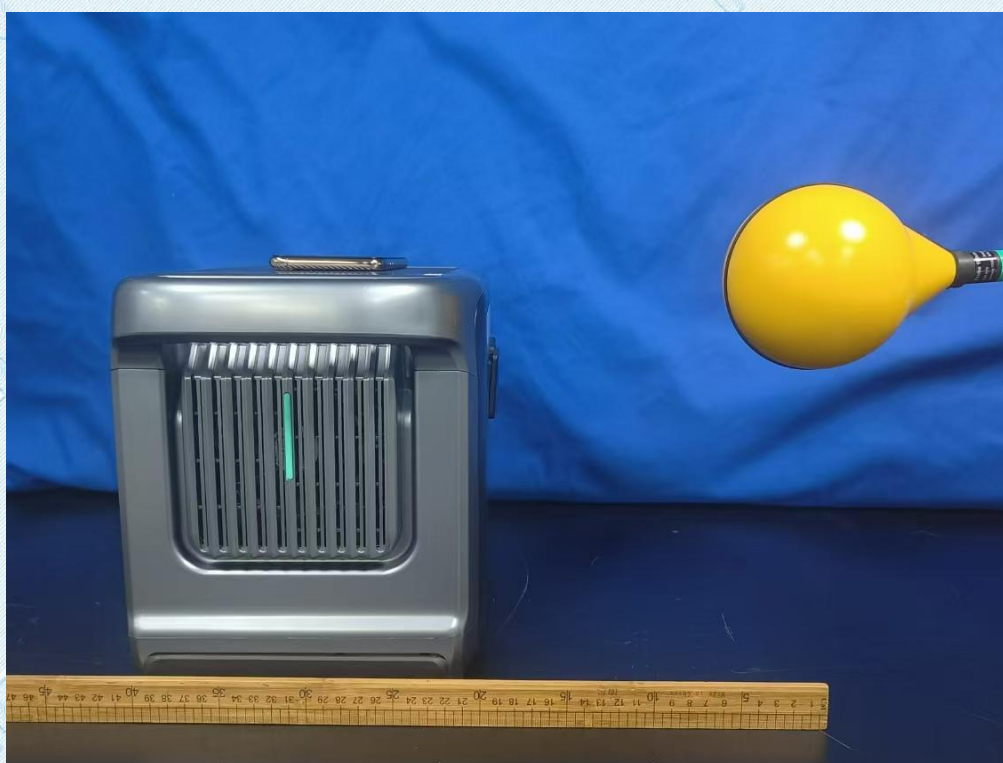
Requirements of KDB 680106 D01	Yes/No	Description
(1) Power transfer frequency is less than 1 MHz	Yes	The EUT frequency range is: 115kHz-205kHz
(2) Output power from each primary coil is less than or equal to 15 watts.	Yes	The output power is 15W
(3) The system may consist of more than one source primary 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 20 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



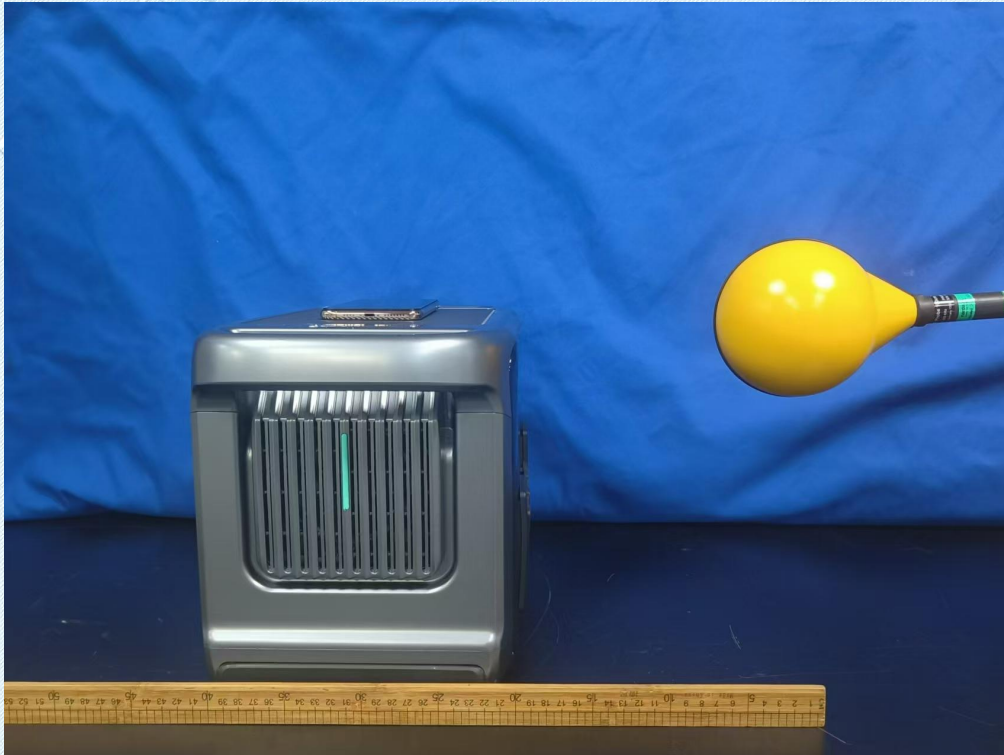
Position A



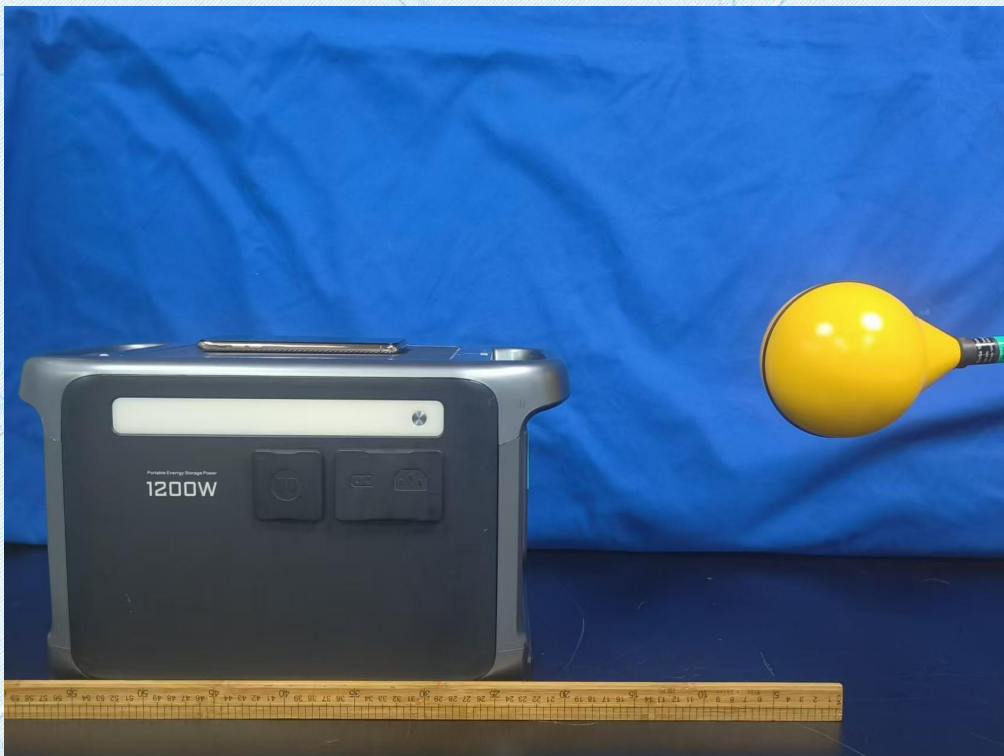
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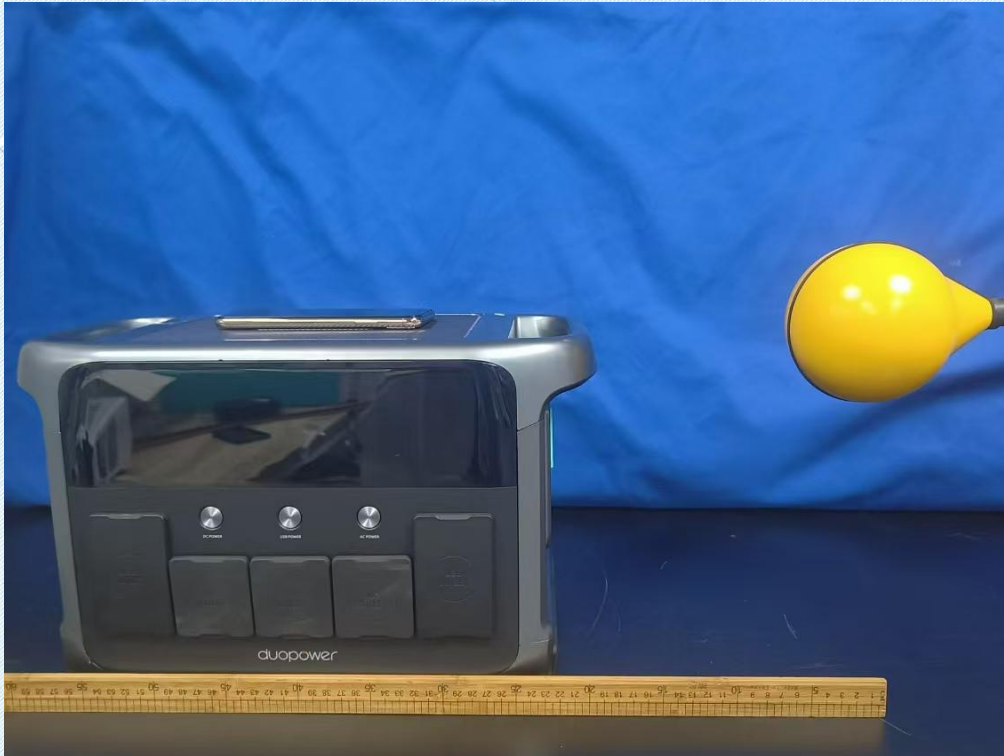
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Position C





--THE END--