







Product Name:	Game Magnetic Wireless Charging Power Bank		
Product Model No.:	V99		
Model Difference:	(41) (13) (13)		
Test Auxiliary:	Mobile phone and AC Adapter and Wireless charging load		
Transmitting mode:	Keep the EUT in continuously wireless charging mode		
Power supply:	USB-C Input: 5 V3 A, 9 V2.22 A, 12 V1.67 A USB-C Output: 5 V3 A, 9 V2.22 A Wireless Output: 15 W(Max) Total Output: 20 W(Max) Capacity: 5000mAh Rated Capacity: 2800mAh(5 V/2 A)		





























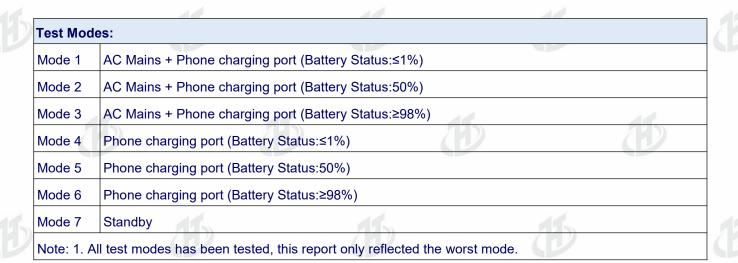












Auxilia	Auxiliary equipment							
Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note			
E-1	AC Adapter	Xiaomi	MDY-08-EH	1	AE			
E-3	Mobile phone	Apple Inc.	iPhone Xr	/	AE			







KDB 680106 D01 Wireless Power Transfer v04

2 Requirements

According to the item 5 of KDB 680106 D01 v04:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

Requirements of section 3 of KDB 680106 D01	Yes/ No	Description
Mobile Device and Portable Device Configurations	Yes	Mobile Device
Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz	Yes	The device operate in the frequency range:115-205kHz
RF Exposure compliance may be ensured only for a minimum conditions at smaller distances can still be considered unlikely.separation distance that is greater than 20 cm, while use	Yes	The EUT H-field and E-field strengths at 20 cm surrounding the device.







The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

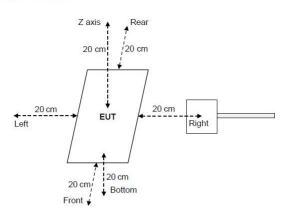
Limits for Maximum Permissible Exposure (MPE)

Frequency range Electric field strength (MHz) (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	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	/	Ī	5	6	
	(B) Limits for Genera	Population/Uncontrolle	ed 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	/	1	f/1500	30	
1500-100,000	/	/	1.0	30	

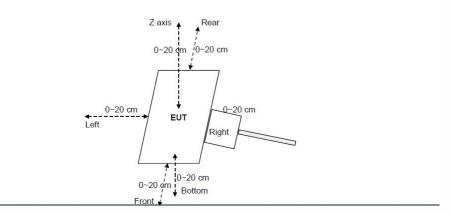
F=frequency in MHz
"=Plane-wave equivalent power density
RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits

3 Test Setup

For mobile exposure conditions:



For portable exposure conditions:







- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (20 cm from all sides and 20 cm from the top) which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v04.

Remark: The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

5 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	H-field	±0.7dB
2	E-field	±1.06dB

Decision Rule

- □ Uncertainty is not included
- Uncertainty is included







































Test Equipment	Manufacturer	Model No.	SN.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
		EL T. 400	11.0004	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Exposure Level Tester	Narda	ELT-400	N-0231	Sep. 29, 2024	Sep. 28, 2025	
Magnetic field probe	Nordo	El Taraba 100am2	M0675	Con 20 2024	Son 20 2025	
100cm2	Narda	ELT probe 100cm2	M0675	Sep. 29, 2024	Sep. 28, 2025	
Isotropic Electric field probe	Narda	EP-601	611WX70332	Sep. 29, 2024	Sep. 28, 2025	





I Filed Of worth from the adversary of the FUT (A/w)										
H-Filed Strength from the edges surrounding the EUT (A/m)										
The measurement probe was placed at test distance which is between the edge of the charger and the geometric of probe(cm)	Frequency Range (MHz)	Unit	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	Limits (A/m)	test result
6	0.115-0.20 5	A (uT)	0.490	0.550 0.440	0.520 0.416	0.500	0.550	0.540	1.63	PASS
8	0.115-0.20 5	A (uT) (A/m)	0.450	0.450	0.420	0.450	0.460	0.420	1.63	PASS
10	0.115-0.20 5	A (uT) (A/m)	0.420 0.336	0.390 0.312	0.420 0.336	0.400	0.420 0.336	0.410 0.328	1.63	PASS
12	0.115-0.20 5	A (uT) (A/m)	0.350 0.280	0.350 0.280	0.370 0.296	0.370 0.296	0.360 0.288	0.360 0.288	1.63	PASS
11	0.115-0.20	A (uT)	0.340 0.272	0.350 0.280	0.330 0.264	0.350 0.280	0.330 0.264	0.330 0.264	1.63	PASS
16	0.115-0.20 5	A (uT) (A/m)	0.330 0.264	0.320 0.256	0.320 0.256	0.300 0.240	0.290 0.232	0.310 0.248	1.63	PASS
18	0.115-0.20 5	A (uT) (A/m)	0.270 0.216	0.280 0.224	0.290 0.232	0.280 0.224	0.280 0.224	0.260 0.208	1.63	PASS
20	0.115-0.20	A (uT) (A/m)	0.250 0.200	0.230 0.184	0.230 0.184	0.230 0.184	0.240 0.192	0.260 0.208	1.63	PASS

Note: Calculation: A/m=uT/1.25























1. Magnetic field on the axis of a current-carrying circle coil:

$$\mathsf{B} = \frac{u_0 I R^2}{2(R^2 + X^2)^{\frac{3}{2}}}$$

R is the coil outside diameter radius.

X is the distance from the test point to the center of the coil circle.

B is the magnetic magnetic field.

- 2. According to the KDB 680106, the model needs to be validated by probe measurements at the two points closest to the surface of the device, in 2cm increments, and if there is a 30% agreement between the model and the (E-field and/or h-field) probe measurements, the validation is considered sufficient.
- 3. We derived the field strengths at 10cm to 8cm and 8cm to 6cm, respectively, which are close to the actual test values, based on the field strength at 6 cm, the field strength at 4cm and 2cm and 0 cm can be deduced.
- 4. A table of error data between the assessed and measured values:

diatanaa (am)	Measurements	distance (am)	Assessed	Error	Limit
distance (cm)	(A/m)	distance (cm)	(A/m)	(%)	(%)
10	0.336	/	/	/	1
8	0.368	10 to 8	0.464	-20.69	<30
6	0.440	8 to 6	0.524	-16.03	<30







No.	
distance (cm)	Position Left (A/m)
8	0.368
6	0.524
4	0.745
2	1.060
0	1.508



To 6cm: B =
$$\frac{u_0 I R^2}{2(R^2 + X^2)_3^2} = \frac{0.01040520}{2(0.055^2 + 0.06^2)_2^3} = 0.524$$

6cm:
$$u_0IR^2 = B * 2(R^2 + X^2) \frac{2}{3} = 0.524 * 2(0.055^2 + 0.06^2) \frac{3}{2} = 0.01041450$$

To 4cm: B =
$$\frac{u_0 I R^2}{2(R^2 + X^2)_3^2} = \frac{0.01040520}{2(0.055^2 + 0.04^2)_3^2} = 0.751$$

4cm:
$$u_0 IR^2 = B * 2(R^2 + X^2) \frac{2}{3} = 0.751 * 2(0.055^2 + 0.04^2) \frac{3}{2} = 0.01042013$$

To 2cm: B =
$$\frac{u_0 I R^2}{2(R^2 + X^2)_{\frac{2}{3}}} = \frac{0.01040520}{2(0.055^2 + 0.02^2)_{\frac{3}{2}}} = 1.014$$

2cm:
$$u_0 IR^2 = B * 2(R^2 + X^2) \frac{2}{3} = 1.014 * 2(0.055^2 + 0.02^2) \frac{3}{2} = 0.01041885$$

To 0cm: B =
$$\frac{u_0 I R^2}{2(R^2 + X^2)_3^2} = \frac{0.01040520}{2(0.055^2 + 0^2)_2^3} = 1.148$$





8. Test Photo

























