



RF EXPOSURE EVALUATION

FCC ID:2BWBV-AIROVOLT10

Report Number.....: **ZKT-2601271930E-1**

Date of Test.....: Feb. 01, 2026 to Feb. 06, 2026

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Test Result: PASS

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.

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Applicant's name: Dongguan Sairen Technology Co., Ltd.

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Manufacturer's name: Dongguan Hengsheng Intelligent Technology Co., Ltd.

Address: Room 304, Building 1, No. 57, Shaxin Road, Tangxia Town, Dongguan City, Guangdong Province

Test specification:

FCC CFR 47 Part 1 § 1.1310

Standard.....: FCC CFR 47 Part 2 § 2.1093

KDB 680106 D01 Wireless Power Transfer v04

Test procedure.....: /

Non-standard test method: N/A

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name.....: Airo Volt 10 Magnetic Wireless Power Bank

Trademark: N/A

Model/Type reference.....: AIRO Volt 10

Ratings.....: Type-C Input: 5V---3A, 9V---2A, 12V---1.5A

Type-C Output: 5V---2.4A, 9V---2.2A, 12V---1.5A

Wireless Output: 15W (MAX)

Battery Capacity: 10000mAh/3.85V/38.5Wh



Product Name:	Airo Volt 10 Magnetic Wireless Power Bank
Trade Mark:	N/A
Model No.:	AIRO Volt 10
Serial No.:	N/A
Model Difference:	N/A
Operation Frequency:	111kHz ~ 205kHz
Modulation Type:	ASK
Antenna Type:	Loop Coil Antenna
Power Supply:	Type-C Input: 5V $\overline{\text{---}}$ 3A, 9V $\overline{\text{---}}$ 2A, 12V $\overline{\text{---}}$ 1.5A Type-C Output: 5V $\overline{\text{---}}$ 2.4A, 9V $\overline{\text{---}}$ 2.2A, 12V $\overline{\text{---}}$ 1.5A Wireless Output: 15W (MAX)
Battery Capacity:	10000mAh/3.85V/38.5Wh
Transmitting Mode:	Keep the EUT in continuously wireless charging mode

a. EUT mode for mobile exposure:

Test Modes:	Test Coil:	Description:
Mode 1	ANT 1	AC/DC Adapter (12V/1.5A) + EUT + Phone (Battery Status: <1%)
Mode 2		AC/DC Adapter (12V/1.5A) + EUT + Phone (Battery Status: 50%)
Mode 3		AC/DC Adapter (12V/1.5A) + EUT + Phone (Battery Status: >98%)
Mode 4		AC/DC Adapter (9V/2A) + EUT + Phone (Battery Status: <1%)
Mode 5		AC/DC Adapter (9V/2A) + EUT + Phone (Battery Status: 50%)
Mode 6		AC/DC Adapter (9V/2A) + EUT + Phone (Battery Status: >98%)
Mode 7		AC/DC Adapter (5V/3A) + EUT + Phone (Battery Status: <1%)
Mode 8		AC/DC Adapter (5V/3A) + EUT + Phone (Battery Status: 50%)
Mode 9		AC/DC Adapter (5V/3A)) + EUT + Phone (Battery Status: >98%)

b. EUT mode for portable exposure:

Test Modes:	Test Coil:	Description:
Mode 1a	ANT 1	EUT + Phone (Battery Status: <1%)
Mode 2a		EUT + Phone (Battery Status: 50%)
Mode 3a		EUT + Phone (Battery Status: >98%)



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1. Measuring Standard

1.1 KDB 680106 D01 Wireless Power Transfer v04

1.2 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded 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-filed	$\pm 0.93\text{dB}$
2	E-filed	$\pm 0.51\text{dB}$

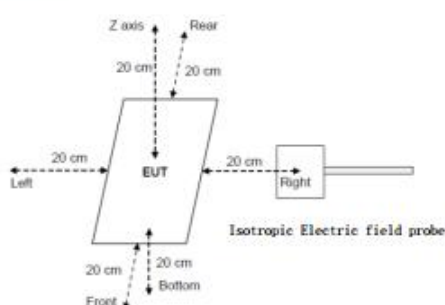
2. Method Of Measurement

2.1 Applicable Standard

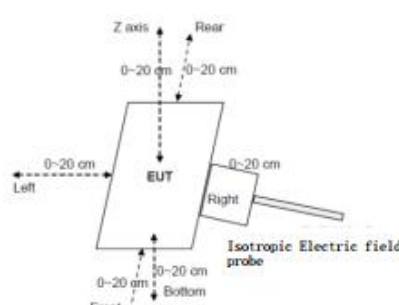
According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to §1.1310 and §2.1093 RF exposure is calculated. According KDB 680106 D01 Wireless Power Transfer v04.

2.2 Block diagram of Test Setup

For mobile exposure conditions:



For portable exposure conditions:



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 20cm - 0cm measured from the center of the top, and 20cm - 0cm measured from the center of the rest.

2.3 For mobile exposure conditions:

- The RF exposure test was performed in an echoic chamber;
- E and H-field measurements should be made with the center of the probe at a distance of 20 cm surrounding the EUT and 20 cm above the top surface of the primary/client pair;
- The highest emission level was recorded and compared with limit;
- The EUT was measured according to the dictates of KDB 680106 D01v04.

2.4 For portable exposure conditions:

- The RF exposure test was performed in an echoic chamber;
- E and H-field measurements should be made with the probe at 0 - 20 cm for all side of the EUT;
- The highest emission level was recorded and compared with limit;
- Perform H-field measurements for each edge/top surface of the host/client pair at every 2 cm starting from as close as possible out to 20cm.



2.5 Limits for Maximum Permissible Exposure (MPE):

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).

2.6 Test Procedure

- 1) The RF exposure test was performed on 360 degree turn table in an echoic chamber.
- 2) 20 cm-0cm measured from the center of the top, and 20cm-0cm measured from the center of the rest sides.
- 3) The turn table was rotated 360 degree to search of highest strength.
- 4) The highest emission level was recorded and compared with limit as soon as measurement of each points were completed.
- 5) The EUT were measured according to the dictates of KDB 680106 D01v04.

3. Test instrument and equipment list

3.1 Test Instruments list

Test Equipment	Manufacturer	Model No.	SN.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
Exposure Level Tester	Narda	ELT-400	180ZX10220	Sep. 29, 2025	Sep. 28, 2026
Magnetic field probe 100cm ²	Narda	ELT probe 100cm ²	M0675	Sep. 29, 2025	Sep. 28, 2026

3.2 Test auxiliary equipment list

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Airo Volt 10 Magnetic Wireless Power Bank	N/A	AIRO Volt 10	N/A	EUT
E-2	AC/DC Adapter	UGREEN	X569	E63003923231	Auxiliary
E-3	Phone	APPLE	iPhone 13 Pro	N/A	Auxiliary



4. Test Result

4.1 For portable exposure result

Test mode 1a to 3a recorded

H-Filed Strength at (distance from 6cm to 20cm at 2cm iteration) surrounding the EUT (A/m)

distance (cm)	Battery Level:	Position Left (uT)	Position Right (uT)	Position Rear (uT)	Position Front (uT)	Position Top (uT)	Position Bottom (uT)
20	<1%	0.0186	0.0185	0.0183	0.0184	0.0181	0.0180
18	<1%	0.0249	0.0248	0.0244	0.0246	0.0243	0.0241
16	<1%	0.0342	0.0341	0.0336	0.0339	0.0334	0.0332
14	<1%	0.0487	0.0486	0.0477	0.0482	0.0475	0.0473
12	<1%	0.0721	0.0719	0.0705	0.0714	0.0703	0.0701
10	<1%	0.1116	0.1114	0.1091	0.1104	0.1087	0.1085
8	<1%	0.1813	0.1809	0.1773	0.1795	0.1767	0.1763
6	<1%	0.3078	0.3071	0.3008	0.3046	0.2997	0.2991

distance (cm)	Battery Level:	Position Left (A/m)	Position Right (A/m)	Position Rear (A/m)	Position Front (A/m)	Position Top (A/m)	Position Bottom (A/m)	50% Limits (A/m)	Limits (A/m)
20	<1%	0.0149	0.0148	0.0146	0.0147	0.0145	0.0144	0.815	1.63
18	<1%	0.0199	0.0198	0.0195	0.0197	0.0194	0.0193	0.815	1.63
16	<1%	0.0274	0.0273	0.0268	0.0271	0.0267	0.0266	0.815	1.63
14	<1%	0.0390	0.0389	0.0381	0.0386	0.0380	0.0379	0.815	1.63
12	<1%	0.0577	0.0576	0.0564	0.0571	0.0562	0.0561	0.815	1.63
10	<1%	0.0893	0.0891	0.0873	0.0884	0.0870	0.0868	0.815	1.63
8	<1%	0.1451	0.1448	0.1418	0.1436	0.1413	0.1410	0.815	1.63
6	<1%	0.2462	0.2457	0.2406	0.2437	0.2398	0.2393	0.815	1.63



H-Filed Strength at (distance from 6cm to 20cm at 2cm iteration) surrounding the EUT (A/m)

distance (cm)	Battery Level:	Position Left (uT)	Position Right (uT)	Position Rear (uT)	Position Front (uT)	Position Top (uT)	Position Bottom (uT)
20	50%	0.0173	0.0169	0.0171	0.0170	0.0168	0.0166
18	50%	0.0231	0.0226	0.0229	0.0228	0.0224	0.0223
16	50%	0.0318	0.0311	0.0315	0.0313	0.0308	0.0306
14	50%	0.0454	0.0443	0.0448	0.0446	0.0438	0.0436
12	50%	0.0671	0.0655	0.0664	0.0660	0.0647	0.0645
10	50%	0.1039	0.1014	0.1027	0.1021	0.1002	0.0998
8	50%	0.1688	0.1647	0.1669	0.1659	0.1629	0.1621
6	50%	0.2863	0.2796	0.2832	0.2815	0.2764	0.2749

distance (cm)	Battery Level:	Position Left (A/m)	Position Right (A/m)	Position Rear (A/m)	Position Front (A/m)	Position Top (A/m)	Position Bottom (A/m)	50% Limits (A/m)	Limits (A/m)
20	50%	0.0138	0.0135	0.0137	0.0136	0.0134	0.0133	0.815	1.63
18	50%	0.0185	0.0181	0.0183	0.0182	0.0179	0.0178	0.815	1.63
16	50%	0.0255	0.0249	0.0252	0.0251	0.0246	0.0245	0.815	1.63
14	50%	0.0363	0.0354	0.0359	0.0357	0.0350	0.0349	0.815	1.63
12	50%	0.0537	0.0524	0.0531	0.0528	0.0518	0.0516	0.815	1.63
10	50%	0.0831	0.0811	0.0822	0.0817	0.0802	0.0798	0.815	1.63
8	50%	0.1350	0.1318	0.1335	0.1327	0.1303	0.1296	0.815	1.63
6	50%	0.2291	0.2236	0.2265	0.2252	0.2211	0.2199	0.815	1.63



H-Filed Strength at (distance from 6cm to 20cm at 2cm iteration) surrounding the EUT (A/m)

distance (cm)	Battery Level:	Position Left (uT)	Position Right (uT)	Position Rear (uT)	Position Front (uT)	Position Top (uT)	Position Bottom (uT)
20	>98%	0.0155	0.0153	0.0154	0.0151	0.0150	0.0148
18	>98%	0.0207	0.0204	0.0206	0.0202	0.0201	0.0197
16	>98%	0.0286	0.0281	0.0284	0.0279	0.0277	0.0272
14	>98%	0.0407	0.0398	0.0404	0.0397	0.0395	0.0388
12	>98%	0.0603	0.0590	0.0597	0.0586	0.0584	0.0573
10	>98%	0.0932	0.0913	0.0925	0.0907	0.0905	0.0888
8	>98%	0.1515	0.1482	0.1503	0.1474	0.1470	0.1442
6	>98%	0.2571	0.2516	0.2550	0.2501	0.2494	0.2446

distance (cm)	Battery Level:	Position Left (A/m)	Position Right (A/m)	Position Rear (A/m)	Position Front (A/m)	Position Top (A/m)	Position Bottom (A/m)	50% Limits (A/m)	Limits (A/m)
20	>98%	0.0124	0.0122	0.0123	0.0121	0.0120	0.0118	0.815	1.63
18	>98%	0.0166	0.0163	0.0165	0.0162	0.0161	0.0158	0.815	1.63
16	>98%	0.0229	0.0224	0.0227	0.0223	0.0222	0.0218	0.815	1.63
14	>98%	0.0326	0.0319	0.0323	0.0317	0.0316	0.0310	0.815	1.63
12	>98%	0.0482	0.0472	0.0478	0.0469	0.0468	0.0459	0.815	1.63
10	>98%	0.0746	0.0730	0.0740	0.0726	0.0724	0.0710	0.815	1.63
8	>98%	0.1212	0.1186	0.1202	0.1179	0.1176	0.1153	0.815	1.63
6	>98%	0.2057	0.2012	0.2040	0.2001	0.1995	0.1956	0.815	1.63

Note: A/m = uT/1.25



H-Filed Strength at (distance from 4cm to 0cm) surrounding the EUT (A/m)

distance (cm)	Battery Level:	Position Left (A/m)	Position Right (A/m)	Position Rear (A/m)	Position Front (A/m)	Position Top (A/m)	Position Bottom (A/m)	50% Limits (A/m)	Limits (A/m)
4	<1%	0.4221	0.4212	0.4125	0.4178	0.4111	0.4103	0.815	1.63
2	<1%	0.6624	0.6609	0.6473	0.6556	0.6451	0.6438	0.815	1.63
0	<1%	0.7980	0.7962	0.7798	0.7898	0.7772	0.7756	0.815	1.63
4	50%	0.3928	0.3833	0.3883	0.3861	0.3791	0.3770	0.815	1.63
2	50%	0.6164	0.6015	0.6093	0.6059	0.5949	0.5916	0.815	1.63
0	50%	0.7426	0.7247	0.7341	0.7300	0.7167	0.7127	0.815	1.63
4	>98%	0.3449	0.3420	0.3431	0.3381	0.3353	0.3276	0.815	1.63
2	>98%	0.5412	0.5367	0.5384	0.5305	0.5262	0.5141	0.815	1.63
0	>98%	0.6520	0.6466	0.6486	0.6391	0.6339	0.6194	0.815	1.63

Note: Biot-Savar law:

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

$$B = \frac{\mu_0 I R^2}{2(R^2 + X^2)^{\frac{3}{2}}}$$

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:

distance (cm)	Measurements (A/m)	distance (cm)	Assessed (A/m)	Error (%)	Limit (%)
10	0.1451	\	\	\	\
8	0.1451	10 to 8	0.1359	6.34	<30
6	0.2462	8 to 6	0.2365	6.69	<30



(5) Calculation process:

Distance (cm)	Battery Level (%)	Position Left (A/m)
8	<1	0.1451
6	<1	0.2462
4	<1	0.4221
2	<1	0.6624
0	<1	0.7980

$$8\text{cm: } u_0IR^2 = B * 2(R^2 + X^2)^{\frac{3}{2}} = 0.1451 * 2(0.055^2 + 0.08^2)^{\frac{3}{2}} = 0.000265534$$

$$\text{To 6cm: } B = \frac{u_0IR^2}{2(R^2+X^2)^{\frac{3}{2}}} = \frac{0.000265534}{2(0.055^2+0.06^2)^{\frac{3}{2}}} = 0.2462$$

$$6\text{cm: } u_0IR^2 = B * 2(R^2 + X^2)^{\frac{3}{2}} = 0.2462 * 2(0.055^2 + 0.06^2)^{\frac{3}{2}} = 0.00026552$$

$$\text{To 4cm: } B = \frac{u_0IR^2}{2(R^2+X^2)^{\frac{3}{2}}} = \frac{0.00026552}{2(0.055^2+0.04^2)^{\frac{3}{2}}} = 0.4221$$

$$4\text{cm: } u_0IR^2 = B * 2(R^2 + X^2)^{\frac{3}{2}} = 0.4221 * 2(0.055^2 + 0.04^2)^{\frac{3}{2}} = 0.00026553$$

$$\text{To 2cm: } B = \frac{u_0IR^2}{2(R^2+X^2)^{\frac{3}{2}}} = \frac{0.00026553}{2(0.055^2+0.02^2)^{\frac{3}{2}}} = 0.6624$$

$$2\text{cm: } u_0IR^2 = B * 2(R^2 + X^2)^{\frac{3}{2}} = 0.6624 * 2(0.055^2 + 0.02^2)^{\frac{3}{2}} = 0.000265547$$

$$\text{To 0cm: } B = \frac{u_0IR^2}{2(R^2+X^2)^{\frac{3}{2}}} = \frac{0.000265547}{2(0.055^2+0^2)^{\frac{3}{2}}} = 0.7980$$



4.2 For mobile exposure result

Test mode 1 to 3 recorded

H-Filed Strength at (distance from 20cm) surrounding the EUT (A/m)

distance (cm)	Battery Level:	Position Left (uT)	Position Right (uT)	Position Rear (uT)	Position Front (uT)	Position Top (uT)	Position Bottom (uT)
20	<1%	0.0191	0.019	0.0189	0.0187	0.0188	0.0186
20	50%	0.0179	0.0181	0.0178	0.0176	0.0177	0.0175
20	>98%	0.0163	0.0164	0.0162	0.0165	0.0161	0.0160

distance (cm)	Battery Level:	Position Left (A/m)	Position Right (A/m)	Position Rear (A/m)	Position Front (A/m)	Position Top (A/m)	Position Bottom (A/m)	50% Limits (A/m)	Limits (A/m)
20	<1%	0.0153	0.0152	0.0151	0.0150	0.0150	0.0149	0.815	1.63
20	50%	0.0143	0.0145	0.0142	0.0141	0.0142	0.0140	0.815	1.63
20	>98%	0.0130	0.0131	0.0130	0.0132	0.0129	0.0128	0.815	1.63

Note: A/m = uT/1.25



5. Test Set-up Photo

Probe	Length	Width	Radius
	11cm	11cm	5.5cm

5.1 Test distance: 20cm

Reference to the appendix III for details.

5.2 Test distance: 6cm

Reference to the appendix III for details.

***** END OF REPORT *****