

**RF EXPOSURE REPORT FOR CERTIFICATION**  
On Behalf of

**Anker Innovations Limited**

**Anker 334 MagGo Battery(PowerCore 10K)**

**Model Number: A1642**

**FCC ID: 2AOKB-A1642**

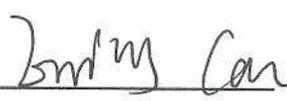
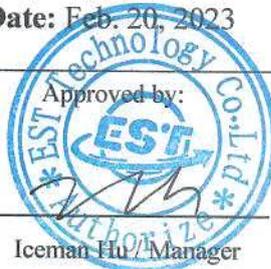
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Prepared By:	EST Technology Co., Ltd.
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Report Number:	ESTE-R2302150
Date of Test:	Jan. 14~Feb. 15, 2023
Date of Report:	Feb. 20, 2023

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### EST Technology Co., Ltd.

<b>Applicant:</b>	Anker Innovations Limited		
<b>Address:</b>	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong		
<b>Manufacturer:</b>	Anker Innovations Limited		
<b>Address:</b>	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong		
<b>Factory:</b>	Shenzhen Blue Times Technology Co Ltd		
<b>Address:</b>	B block, Taixinglong Technology zone, Hezhou, Xixiang town, BaoAn District, SHENZHEN GUANGDONG 518126, CHINA		
<b>E.U.T:</b>	Anker 334 MagGo Battery(PowerCore 10K)		
<b>Model Number:</b>	A1642		
<b>Power Supply:</b>	USB-C Input: 5V===3A USB-C Output: 5V===3A/ 9V===2.22A USB-C Output: 5V===2.4A/ 9V===2.22A USB-A Output: 5V===2.4A/ 9V===2A/ 12V===1.5A Wireless Output:5W/7.5W Total Output:5V===2.4A Max		
<b>Trade Name:</b>	ANKER	Serial No.:	-----
<b>Date of Receipt:</b>	Jan. 14, 2023	<b>Date of Test:</b>	Jan. 14~Feb. 15, 2023
<b>Test Specification:</b>	FCC CFR 47 Part 1.1307(b)&1.1310 KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01		
<b>Test Result:</b>	The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC CFR 47 Part 1.1307(b)&1.1310 requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.		
<b>Prepared by:</b>	<b>Reviewed by:</b>	<b>Date:</b> Feb. 20, 2023	
 Emily Cai / Assistant	 Seven Wang / Engineer	 Approved by:  Iceman Hu / Manager	
<b>Other Aspects:</b>	None.		
Abbreviations: OK/P=passed    fail/F=failed    n.a/N=not applicable    E.U.T=equipment under tested			
This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.			

## 1. SUMMARY OF TEST

### 1.1. Summary of test result

No.	Description of Test Item	FCC Standard Section	Results
1	Maximum Permissible Exposure	Part 1.1307(b)&1.1310	PASS

### 1.2. Test Mode

Test Item	Test Mode
Maximum Permissible Exposure	Wireless Charging with Empty Load
	Wireless Charging with Half Load
	Wireless Charging with Full Load
Note: The worst Full Load status is recorded in the report	

### 1.3. Test Equipment List

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Electric and Magnetic Field Probe-Analyzer	Narda S.T.S./PMM	EHP-200A	EST-E106	June 13,22	1 Year
Simulated load	/	/	EST-306	N/A	N/A
Simulated load	/	/	EST-307	N/A	N/A
Test Software	Narda	EHP200-TS	Rel 1.92	N/A	N/A

## 2. MAXIMUM PERMISSIBLE EXPOSURE

### 2.1. Limit

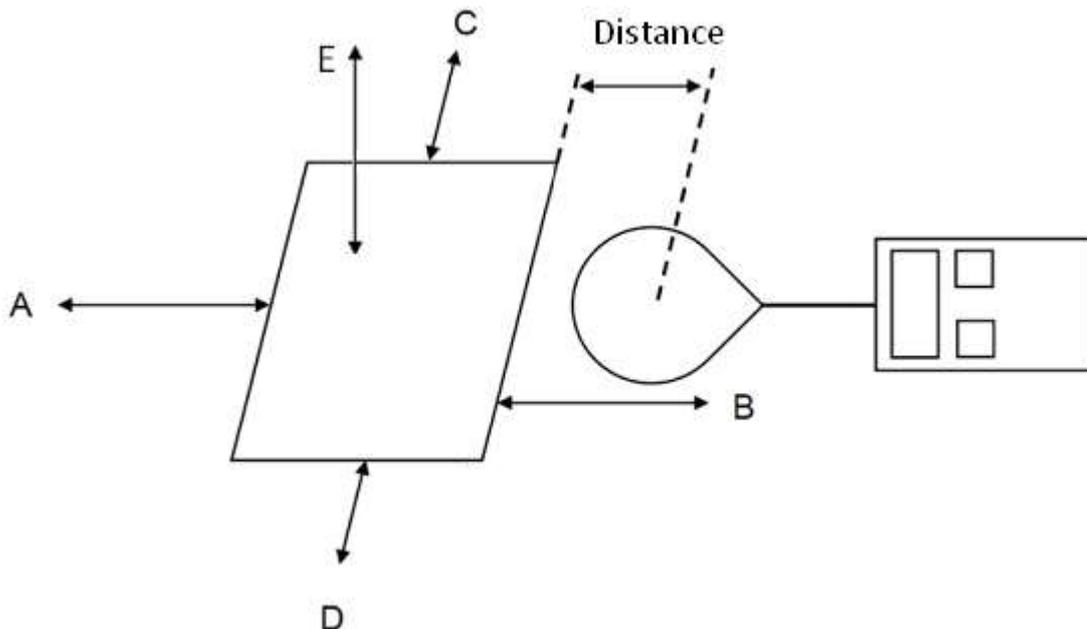
**Limits for Maximum Permissible Exposure (MPE)**

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposure</b>				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f <sup>2</sup>	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f <sup>2</sup>	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

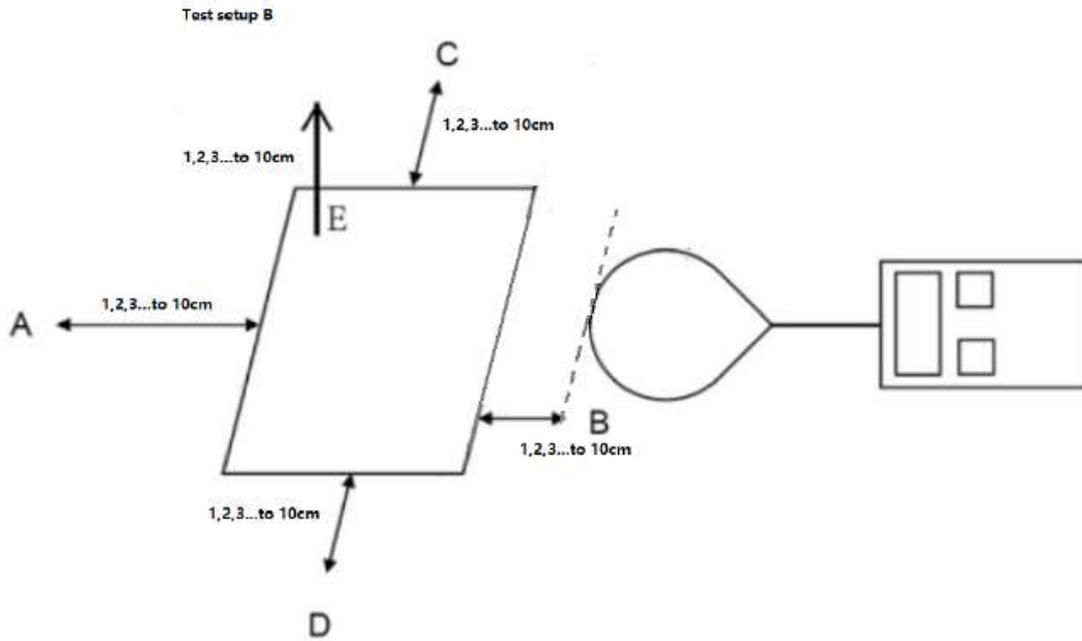
Note:

- f = frequency in MHz \* = Plane-wave equivalent power density.
- For devices designed for typical desktop applications, such as wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

### 2.2. Test Setup A



### 2.3. Test Setup B



### 2.4. Test Procedure

- a. The test was performed on 360 degree turn table in anechoic chamber.
- b. The probe was placed at 15 cm surrounding the device and 20 cm above the top of the charger and the geometric centre of the probe, for test setup A.
- c. Measure magnetic and electrical field strength at a distance 10cm to 1cm at 1cm iteration, Which is between the edge of the charger and the edge of of probe, for test setup B.
- d. The highest emission level was recorded and compared with limit as soon as measurement of each point; A, B, C, D, E were completed.

## 2.5. Equipment Approval Considerations

Inductive wireless power transfer applications with supporting field strength results and meeting all of the following requirements are not required to submit a KDB inquiry for devices approved using SDoC or a PAG for equipment approved using certification to address RF exposure compliance.

1	Power transfer frequency is less than 1 MHz
	YES; the device operated in the frequency range from 111-205KHz.
2	Output power from each primary coil is less than or equal to 15 watts.
	YES; the maximum output power of the primary coil is 7.5W.
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; the transfer system includes only single primary and secondary coils.
4	Client device is placed directly in contact with the transmitter.
	YES; Client device is placed directly in contact with the transmitter.
5	Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
	No.
6	The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.
	YES; The EUT field strength levels are 50% x MPE limits.

## 2.6. Test Result for Test setup A:

**E-Field Test Result**

Test Mode	Test distance(cm)	Full Load	Half Load	Empty Load
Frequency range (kHz)	111 to 205 kHz			
Position A(V/m)	15	3.145	3.112	3.568
Position B(V/m)	15	4.105	4.102	4.556
Position C(V/m)	15	4.152	4.603	4.112
Position D(V/m)	15	4.523	4.789	4.189
Position E(V/m)	20	8.579	8.502	7.889
Limits (V/m)	614			
50% Limits(V/m)	307			

**H-Field Test Result**

Test Mode	Test distance(cm)	Full Load	Half Load	Empty Load
Frequency range (kHz)	111 to 205 kHz			
Position A(A/m)	15	0.078	0.089	0.087
Position B(A/m)	15	0.099	0.098	0.087
Position C(A/m)	15	0.102	0.098	0.103
Position D(A/m)	15	0.109	0.103	0.105
Position E(A/m)	20	0.284	0.264	0.212
Limits (A/m)	1.630			
50% Limits (A/m)	0.815			

Note: The product has AC Power in mode and internal battery mode, all mode have been tested, only worst case internal battery mode is recorded.

## 2.7. Test Result for Test setup B:

**E-Filed Strength at (distance 10cm to 1cm at 1cm iteration, i.e. at a distance of 10cm, 9cm, 8cm, ..... 1cm, Which is between the edge of the charger and the edge of of probe,) surrounding the EUT (V/m)**

Test distance (cm)	Position A (V/m)	Position B (V/m)	Position C (V/m)	Position D (V/m)	Position E (V/m)	Limits (V/m)
1	7.335	7.708	7.894	7.205	11.854	614
2	7.102	7.506	7.546	7.113	11.025	614
3	7.098	7.405	7.356	7.045	10.889	614
4	6.897	7.023	6.887	6.987	10.456	614
5	6.489	6.879	6.546	6.853	10.324	614
6	6.256	6.327	6.445	6.389	9.851	614
7	5.978	6.207	6.312	6.207	9.356	614
8	5.876	5.845	5.889	5.326	9.231	614
9	5.413	5.356	5.796	5.112	9.123	614
10	5.102	5.203	5.345	4.897	8.945	614

**H-Filed Strength at (distance 10cm to 1cm at 1cm iteration, i.e. at a distance of 10cm, 9cm, 8cm, ..... 1cm, Which is between the edge of the charger and the edge of of probe,) surrounding the EUT (A/m)**

Test distance (cm)	Position A (A/m)	Position B (A/m)	Position C (A/m)	Position D (A/m)	Position E (A/m)	Limits (A/m)
1	0.143	0.112	0.109	0.135	0.297	1.63
2	0.135	0.108	0.099	0.123	0.267	1.63
3	0.112	0.100	0.097	0.112	0.243	1.63
4	0.109	0.098	0.092	0.107	0.241	1.63
5	0.107	0.097	0.093	0.099	0.234	1.63
6	0.103	0.097	0.091	0.095	0.228	1.63
7	0.098	0.088	0.089	0.087	0.214	1.63
8	0.087	0.083	0.082	0.081	0.209	1.63
9	0.076	0.078	0.081	0.071	0.199	1.63
10	0.071	0.072	0.078	0.069	0.187	1.63

Note: Only internal battery mode.

### **3. TEST SETUP PHOTO**

**Refer to report no. ESTE-R2302205 (Appendix A)**

**End of Test Report**