



EXPOSURE REPORT

FCC ID: 2AOKB-A2590

Date of issue: Feb. 02, 2021

Report Number:	MTi201217008-08E2
Sample Description:	PowerWave 3-in-1 Station with Watch Charging Cable Holder
Model(s):	A2590
Applicant:	Anker Innovations Limited
Address:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong
Date of Test:	Dec. 24, 2020 - Feb. 02, 2021

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.com>

This test report is valid for the tested samples only. It cannot be reproduced except in full without prior written consent of Shenzhen Microtest Co., Ltd.

Test Result Certification

Applicant's name:	Anker Innovations Limited
Address:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong
Manufacture's name:	Anker Innovations Limited
Address:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong
Factory 1:	HU NAN GIANTSUN POWER ELECTRONICS CO., LTD
Address:	Building 15, 16&17, Taiwan Industrial Zone, Nonferrous Metals Industrial Park, Chenzhou, Hunan, China
Factory 2:	Giantsun Power Electronics (VietNam) Co Ltd
Address:	Factory No.6, Lot CN 8, Thach That-Quoc Oai Industrial Park, Phung Xa Commune, Thach That District, Hanoi City, Viet Nam, 155380
Product name:	PowerWave 3-in-1 Station with Watch Charging Cable Holder
Trademark:	ANKER
Model name:	A2590
Standard:	FCC CFR 47 PART 1 , 1.1310
RF Exposure Procedures:	KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01

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

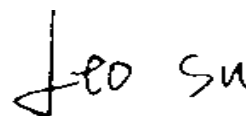
Tested by:



Demi Mu

Feb. 02, 2021

Reviewed by:



Leo Su

Feb. 02, 2021

Approved by:



Tom Xue

Feb. 02, 2021

1 General Information

1.1 Description of EUT

Product name:	PowerWave 3-in-1 Station with Watch Charging Cable Holder
Brand name:	ANKER
Model name:	A2590
Series model:	N/A
Deference in serial model:	N/A
Operation frequency:	115–205 kHz
Operational mode:	Wireless charging
Modulation type:	ASK
Maximum output power:	15W
Antenna type:	Coil Antenna
Power source:	DC 15V from adapter AC 120V/60Hz
Adapter information:	N/A
Earbuds wireless charging:	5W
Mobile phone wireless charging:	15W



1.2 Ancillary equipment list

Equipment	Model	S/N	Manufacturer
Adapter	BS-E915	/	Shenzhen Times Innovation Technology Co., Ltd
Earbuds	A2190	/	APPLE
Phone	S9+	/	SAMSUNG

1.3 Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, $U=2xUc(y)$

Radiated emission(150kHz~30MHz)	± 2.5 dB
Radiated emission(30MHz~1GHz)	± 4.2 dB
Radiated emission (above 1GHz)	± 4.3 dB
Temperature	± 1 degree
Humidity	± 5 %

2 Testing site

Test Site	Shenzhen Microtest Co., Ltd
Test Site Location	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao' an District, Shenzhen, Guangdong, China.
FCC Registration No.:	448573



3 List of test equipment

Equipment No.	Equipment Name	Manufacturer	Model	Serial No.	Calibration date	Due date
MTI-E115	Electric and Magnetic Field Probe - Analyzer	Narda Safety Test Solutions GmbH	EHP-200A	/	2020/11/12	2021/11/11

4 Test Results

4.4 Maximum permissible exposure

4.4.1 Limit

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	6
300-1500			f/300	6
1500-100000			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
1500-100000			1	30

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

4.4.2 Test Procedures

E and H-field measurements should be made with the center of the probe at a distance of 15 cm surrounding the device and 20 cm above the top surface of the primary/client pair.

These measurements should be repeated for three different client battery levels, 1%, 50%, and 99%.

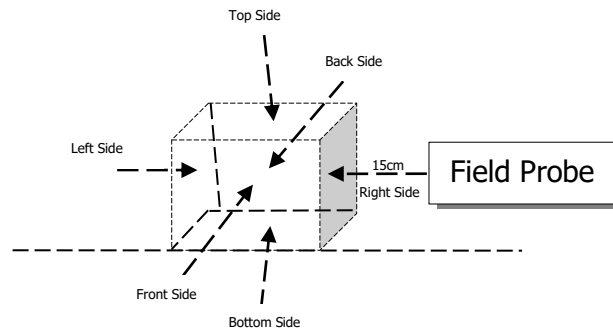
Record the test results.

KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01:

- (1) Power transfer frequency is less than 1 MHz
- (2) Output power from each primary coil is less than or equal to 15 watts.
- (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.
- (4) Client device is placed directly in contact with the transmitter.
- (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
- (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.

Note: The device is in compliance with KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01 6 conditions.

4.4.3 Test Setup





4.4.4 Test Result

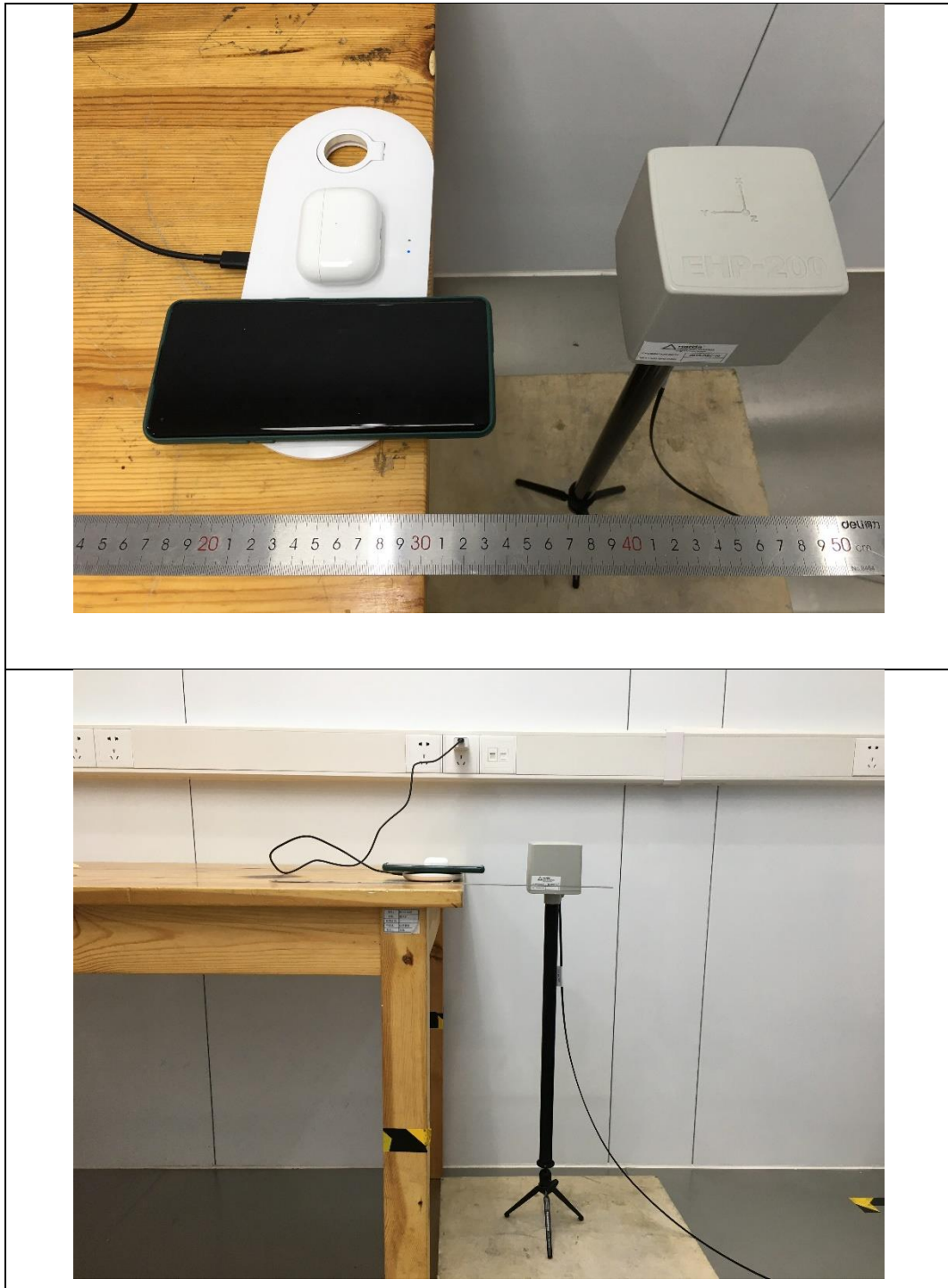
Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<1%	Top	20	0.42	0.0116
<1%	Bottom	15	0.40	0.0113
<1%	Left	15	0.42	0.0113
<1%	Right	15	0.42	0.0108
<1%	Front	15	0.41	0.0105
<1%	Back	15	0.41	0.0112
Limit			614	1.63
Margin Limit (%)			0.069%	7.12%

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<50%	Top	20	0.42	0.0119
<50%	Bottom	15	0.40	0.0115
<50%	Left	15	0.41	0.0113
<50%	Right	15	0.41	0.0108
<50%	Front	15	0.41	0.0110
<50%	Back	15	0.42	0.0112
Limit			614	1.63
Margin Limit (%)			0.069%	7.30%

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<99%	Top	20	0.43	0.0120
<99%	Bottom	15	0.41	0.0109
<99%	Left	15	0.40	0.0106
<99%	Right	15	0.41	0.0105
<99%	Front	15	0.42	0.0111
<99%	Back	15	0.41	0.0106
Limit			614	1.63
Margin Limit (%)			0.070%	7.36%



4.4.5 MPE Setup photo



----END OF REPORT----