

RF EXPOSURE REPORT

Product Name: Wireless Charger
FCC ID: 2A54K-A9
Trademark: N/A
Model Number: A9, A1, A2, A3, A5, A6, A7, A8, A10, A11, A12, A13, A15, A16, A17, A18, A19, A20, A30, A31
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Sample Received Date: Mar. 07, 2022
Sample tested Date: Mar. 07, 2022 to Mar. 23, 2022
Issue Date: Mar. 23, 2022
Report No.: CTB220307028RFX
Test Standards: FCC CFR 47 part1, 1.1307(b), 1.1310, 47 CFR§2.1091; KDB 680106 D01 RF Exposure Wireless Charging App v03r01
Test Results: PASS
Remark: This is wireless charger EMF report.

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Table of Contents

	Page
1 . GENERAL INFORMATION	3
1.1 . Independent Operation Mode	3
1.2 . Test Supporting System	3
2 .LIST OF TEST AND MEASUREMENT INSTRUMENTS	4
2.1 . For conducted emission at the mains terminals test	4
3. METHOD OF MEASUREMENT	5
3. 1.Applicable Standard	5
4. TEST RESULT	5
4.1. Conducted Emission at the Mains Terminals Test	5
4.2. Equipment Approval Considerations:	6
4.3. E and H field Strength	6

1. GENERAL INFORMATION

1.1. Independent Operation Mode

The basic operation mode is:

1.1.1. wireless charger power: 15W

1.2. Test Supporting System

Adapter

Description : Adapter

Model No. : HP18A-0902000-AU

Power Input : AC100-240V~ 1.0A 50/60Hz

Output: 9V--- 2.0A

DC Line : Unshielded, Detachable 1.2m

2. LIST OF TEST AND MEASUREMENT INSTRUMENTS

2.1. For conducted emission at the mains terminals test

Item	Equipment	Brand	Model No.	Last calibration	Calibrated until
1	Magnetic Field Meter	NARDA	ELT-400	2020.09.27	2022.08.05
2	Magnetic Probe	NARDA	HF-3061	2020.09.27	2022.08.05
3	Magnetic Probe	NARDA	HF-0191	2020.09.27	2022.08.05
4	Magnetic Probe	NARDA	M0675	2020.09.27	2022.08.05
6	Electric Field Meter	COMBINOV A	EFM 200	2020.09.27	2022.08.05
7	E-Field Probe	NARDA	EF-0391	2020.09.27	2022.08.05
8	E-Field Probe	NARDA	EF-6091	2020.09.27	2022.08.05

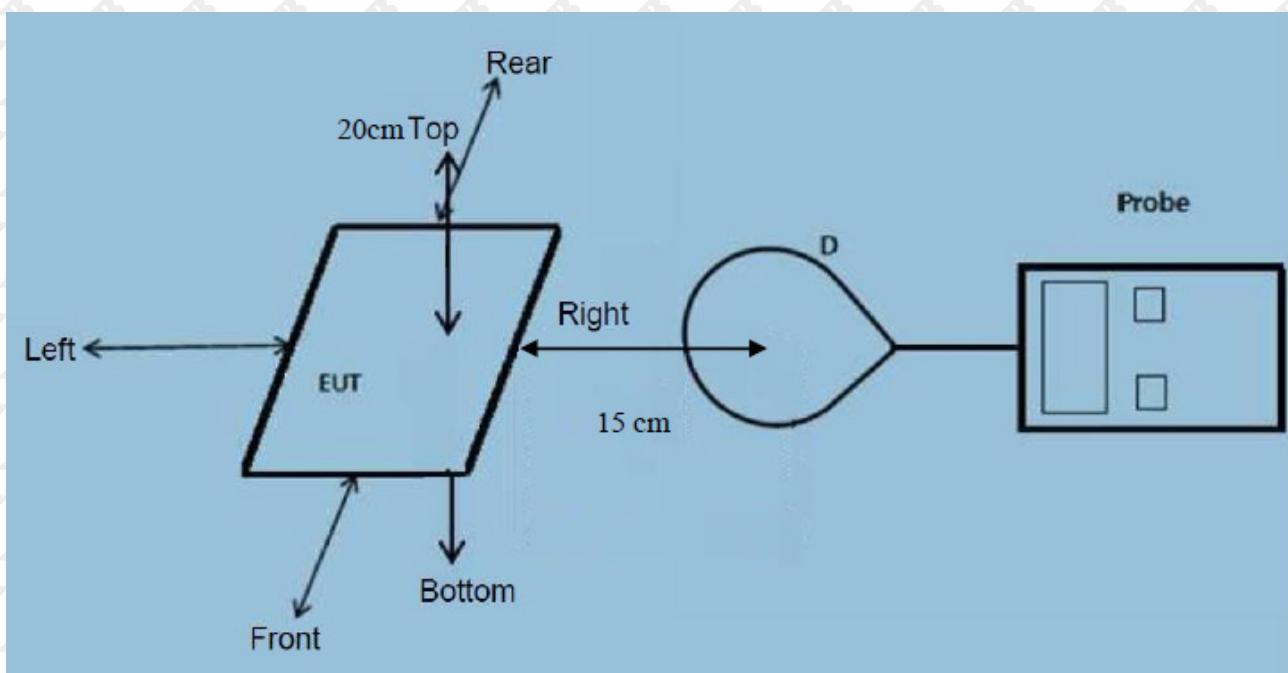
3. METHOD OF MEASUREMENT

3. 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 §2.1091 RF exposure is calculated. According KDB680106 D01: RF Exposure Wireless Charging Apps v 03r01.

4. TEST RESULT

4.1. Conducted Emission at the Mains Terminals Test



Note: 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

Test Procedure:

- a) The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- b) The measurement probe was placed at test distance (15cm) which is between the edge of the charger and the geometric centre of probe.
- c) The turn table was rotated 360d degree to search of highest strength.
- d) The highest emission level was recorded and compared with limit as soon as measurement of each points were completed.
- e) The EUT were measured according to the dictates of KDB 680106v03r01.

4.2. Equipment Approval Considerations:

The EUT does comply with item 5(b) of KDB 680106 V03R01

1) Power transfer frequency is less than 1MHz

Yes, the device operate in the frequency range from 110KHz to 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 15000mW.

3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that able to detect and allow coupling onlybetween individual pair of coils.

Four primary coil is present, the coil pairs may be powered on at the same time.

4) Client device is inserted in or 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).

Yes, the EUT is a Mobile Wireless Charger

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 less $50\% \times \text{MPE limit}$.

4.3. E and H field Strength

E-Field Strength at 15 cm surrounding the EUT and for above the top surface of the EUT, 15cm and 20cm all have been tested, only worse case 15cm is reported.

battery level	Frequency Range (kHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Limits Test (V/m)
1%	140.6	8.03	7.42	7.58	8.12	7.95	614
50%	140.6	7.76	7.45	7.33	7.93	7.64	614
99%	140.6	7.69	7.56	7.24	7.86	7.49	614

H-Field Strength at 15 cm surrounding the EUT and for above the top surface of the EUT, 15cm and 20cm all have been tested, only worse case 15cm is reported.

battery level	Frequency Range (kHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Limits Test (A/m)
1%	140.6	0.20	0.21	0.22	0.24	0.25	1.63
50%	140.6	0.16	0.13	0.13	0.24	0.26	1.63
99%	140.6	0.06	0.12	0.05	0.16	0.28	1.63

Remark: Two input supply modes have been tested, and the test results show that 9V/2-3A is the worst, only 9V/2-3A test chart is put.

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