



RF Exposure Report

Report Number : **68.950.24.0480.01** Date of Issue: **2024-05-20**

Model : **MDY-14-EN**

Product Type : **Xiaomi 50W Wireless Charging Stand Pro**

Brand name : **Xiaomi**

Applicant : **Xiaomi Communications Co.,Ltd**

Address : **#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District,
Beijing, China**

Manufacturer : **Xiaomi Communications Co.,Ltd**

Address : **#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District,
Beijing, China**

Test Result : **Positive** **Negative**

Total pages including Appendices : **8**

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1. Product information

Product name: Xiaomi 50W Wireless Charging Stand Pro

Model no.: MDY-14-EN

FCC ID: 2AFZZ-MDY14EN

Rating: Input 12/20V $\overline{\text{---}}$ 3.25A Max (Supplied by an external adapter)
Output: 12V/20V $\overline{\text{---}}$ 10W/50W Max

RF Transmission Frequency: 126-148KHz

Antenna Type: Coil Antenna

Description of the EUT: The Equipment Under Test (EUT) is a wireless charger which operated at 126-148KHz.

Sample Received Date: April 24, 2024

Testing Start Date: April 24, 2024

Testing End Date: May 14, 2024

Reviewed by:

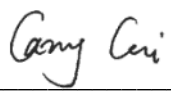
Prepared by:

Tested by:


John Zhi
Project Manager




Sanvin Zheng
Project Engineer


Carry Cai
Test Engineer

2. Summary of Test Standard

Test Standards
§1.1310 Radiofrequency radiation exposure limits.
KDB 680106 D01 Wireless Power Transfer v04 EQUIPMENT AUTHORIZATION OF WIRELESS POWER TRANSFER DEVICES

3. Test Laboratory and test Equipment List

Details about the Test Laboratory:

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
 Building 12 & 13, Zhiheng Wisdomland Business Park, Guankou Erlu,
 Nantou, Nanshan District, Shenzhen, Guangdong, China

FCC Registration No.: 514049
 FCC Designation Number: CN5009
 Telephone: +86 755 8828 6998
 Fax: +86 755 8828 5299

4. Equipment list

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
Electric and magnetic field probe Analyzer	NARDA	EHP-200A	68-4-27-21-001	180ZX10218	1	2025-3-4
Test software	NARDA	EHP200-TS	68-4-27-21-001-A01	02.05	N/A	N/A
Shielding Room #2	TDK	BTC	68-4-90-19-002	----	3	2025-10-15

5. Measurement Uncertainty

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty Evaluation for RF Exposure	1.45dB (Magnetic field) 1.45dB (Electric)

6. Limit and Guidelines on Exposure to Electromagnetic Fields

According to §1.1310 system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

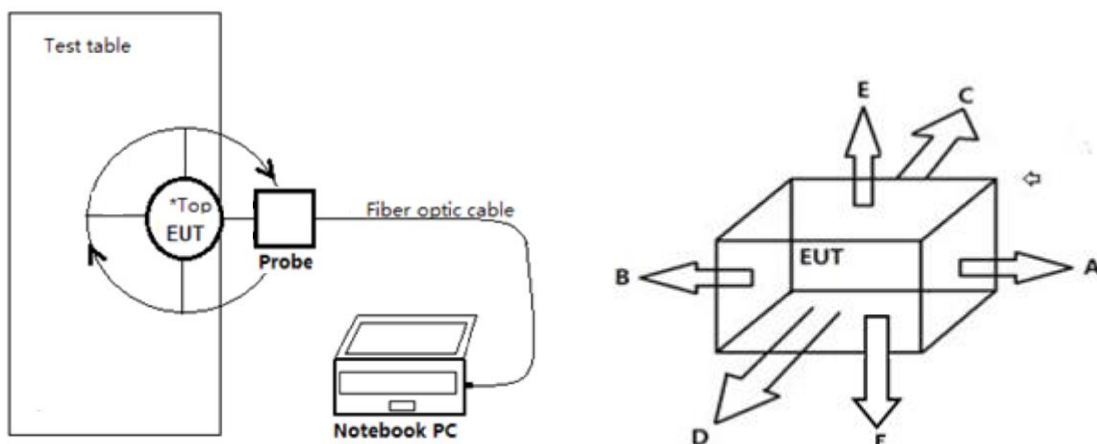
TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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 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
300-1,500			f/300	<6
1,500-100,000			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
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

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

Per the guidance of KDB 680106, the E-field and H-field limits between 100 kHz to 300 kHz are to be considered the same as those at 300 kHz in Table 1 of § 1.1310 shown in the table above, any device (both portable and mobile) operating at frequencies below 100 kHz is considered compliant for the purpose of equipment authorization when the external (unperturbed) temporal peak field strengths do not exceed the 83 V/m for the electric field strength (E) and 90 A/m for the magnetic field strength (H).

7. Test setup



The test distance between the edge of the charger and the probe center is 20cm

8. Measurement procedure

- a) The RF exposure test was performed on the table in anechoic chamber.
- b) The measurement was investigated between the edge of the charger and center of the field probe in the closest state.
- c) Maximum E-field and H-field measurements were made on each of six sides of the EUT that could come in contact with a user. Six sides are defined as follows: Front (A), Rear (B), Left (C), Right (D), Top (E), Bottom (F) and Bottom and Refer to the test position diagram above.
- d) According to the guidance of KDB 680106 D01 v04 test distance was 20 cm on the surrounding sides from the EUT.

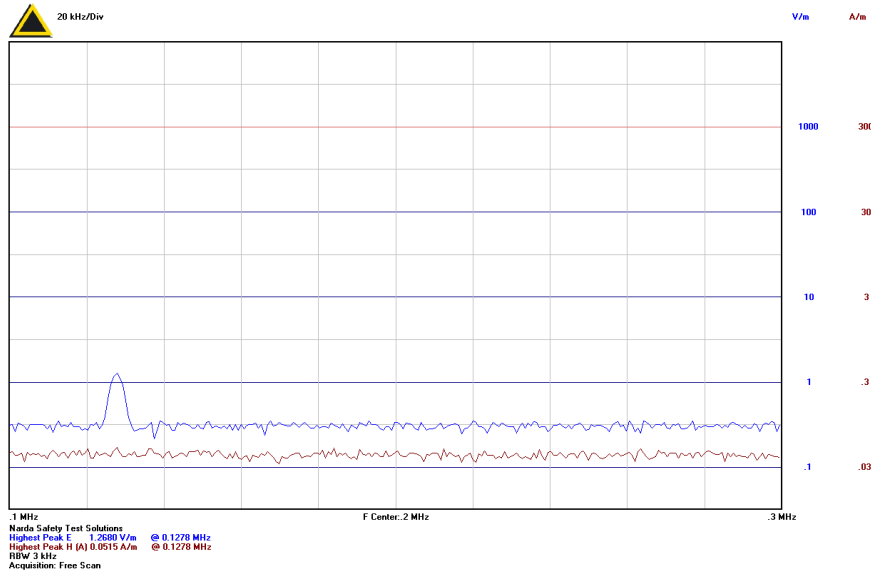
9. Test Result

Quickly charging test mode:

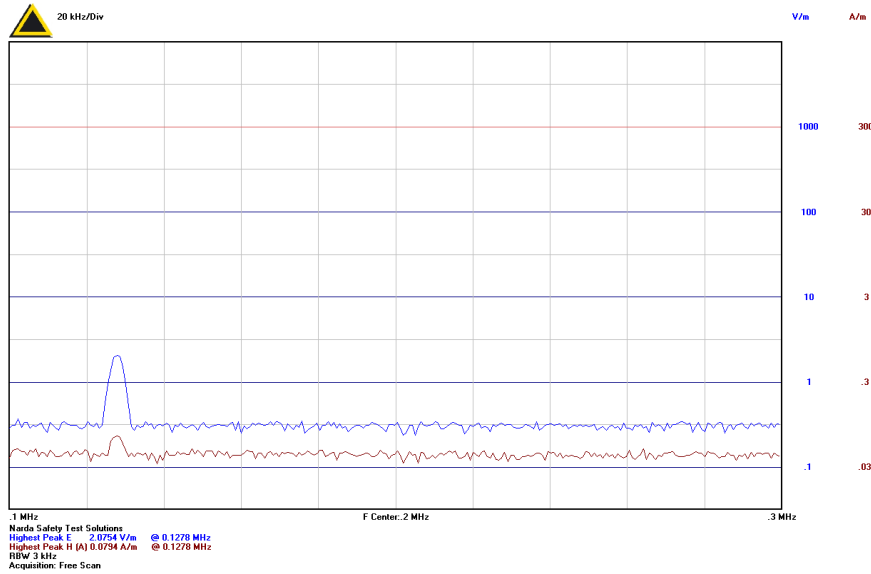
Electric Field Emissions				
Test Position	Test Distance (cm)	Measure Value (V/m)	Limit (V/m)	Result
Front	20	1.2680	614	PASS
Rear	20	2.0754	614	PASS
Left	20	1.2480	614	PASS
Right	20	1.1328	614	PASS
Top	20	1.7839	614	PASS
Bottom	20	0.4172	614	PASS
Magnetic Field Emissions				
Test Position	Test Distance (cm)	Measure Value (A/m)	Limit (A/m)	Result
Front	20	0.0515	1.63	PASS
Rear	20	0.0794	1.63	PASS
Left	20	0.0531	1.63	PASS
Right	20	0.0607	1.63	PASS
Top	20	0.0508	1.63	PASS
Bottom	20	0.0508	1.63	PASS

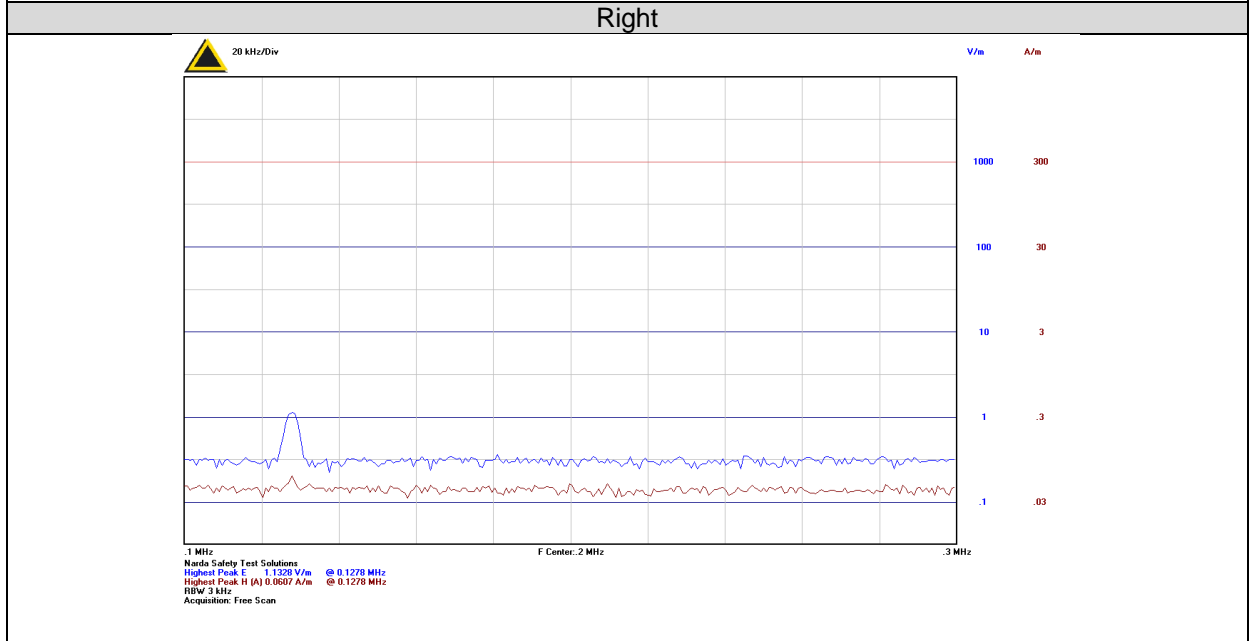
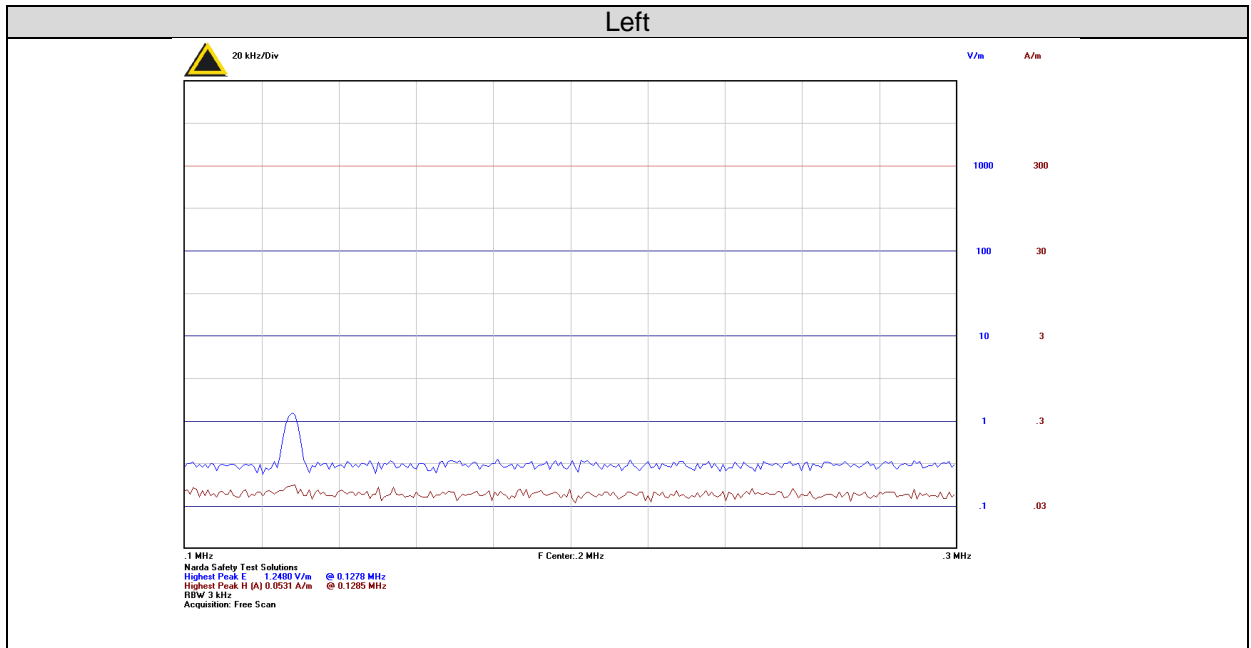
Electric Field Emissions & Magnetic Field Emissions

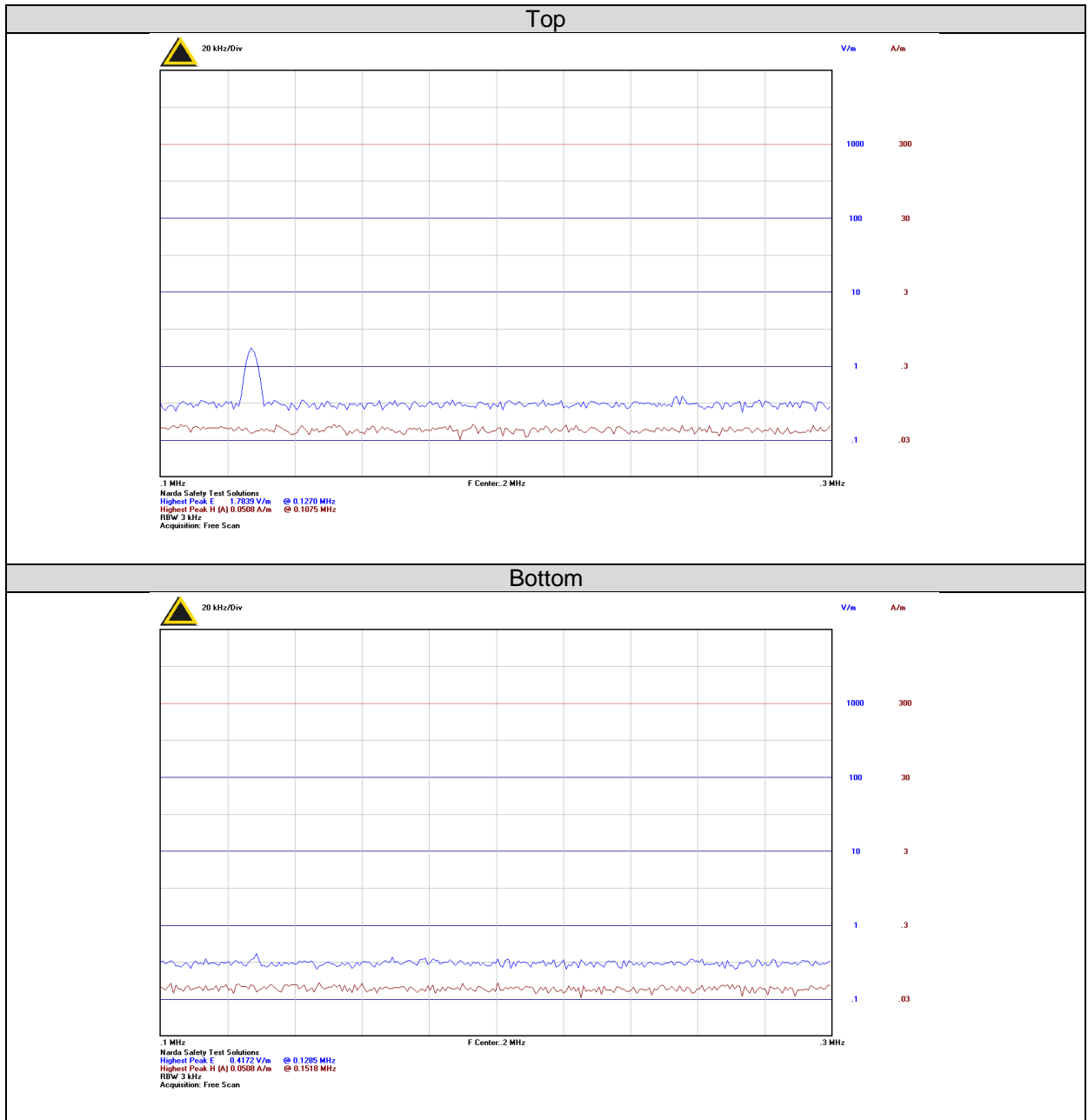
Front



Rear







The test result compliance with §1.1310 and KDB 680106 D01 v04 requirement.