

FCC TEST REPORT
FCC ID: 2ABY9VIONTA-L10

On Behalf of

Adam Elements International Co., LTD.

Ultra Slim Magnetic Wireless Charging Power Bank

Model No.:VIONTA L10

Prepared for : Adam Elements International Co., LTD.
Address : 8F.-5, No. 148, Sec. 4, Zhongxiao E. Rd., Da'an Dist., Taipei City 106,
Taiwan

Prepared By : Shenzhen PSI Testing Co., Ltd.
Address : 1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing
Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Report Number : psi2504013-C01-R04
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Date of Test : April 1, 2025 -April 14, 2025
Date of Report : April 21, 2025
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TEST REPORT DECLARATION

Applicant : Adam Elements International Co., LTD.
Address : 8F.-5, No. 148, Sec. 4, Zhongxiao E. Rd., Da'an Dist., Taipei City 106, Taiwan
Manufacturer : Adam Elements International Co., LTD.
Address : 8F.-5, No. 148, Sec. 4, Zhongxiao E. Rd., Da'an Dist., Taipei City 106, Taiwan
EUT Description : Ultra Slim Magnetic Wireless Charging Power Bank
(A) Model No. : VIONTA L10
(B) Trademark :  ADAM

Measurement Standard Used:

FCC CFR 47 PART 1, FCC CFR 47 part1, 1.1307(b), 1.1310, 2.1093

KDB 680106 D01 Wireless Power Transfer v04

Test Result: PASS

The device described above is tested by Shenzhen PSI Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen PSI Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness test. Also, this report shows that the EUT is technically compliant with the KDB 680106 D01 requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen PSI Testing Co., Ltd.

Tested by (name + signature).....:

Felix Pang
Test Engineer



Approved by (name + signature).....:

Simple Guan
Project Manager



Date of issue.....:

April 21, 2025

Revision History

Revision	Issue Date	Revisions	Revised By
V0	April 21, 2025	Initial released Issue	Felix Pang

1. Test Result Summary

Requirement	CFR 47 Section	Result
RF EXPOSURE	§1.1307(b)(1), §1.1310, §2.1093 & KDB680106 D01	PASS

Note:

1. *PASS: Test item meets the requirement.*
2. *Fail: Test item does not meet the requirement.*
3. *N/A: Test case does not apply to the test object.*
4. *The test result judgment is decided by the limit of test standard.*
5. Decision rules for the conclusion of this test report: decision by actual test data without considering measurement uncertainty.

2. EUT Description

2.1. Description of Device (EUT)

EUT Name : Ultra Slim Magnetic Wireless Charging Power Bank
Model No. : VIONTA L10
DIFF. : /
Power supply : USB-C Input: 5 V $\overline{=}$ 3 A, 9 V $\overline{=}$ 2 A, 12 V $\overline{=}$ 1.5 A
USB-C Output: 5 V $\overline{=}$ 3 A, 9 V $\overline{=}$ 2.22 A, 12 V $\overline{=}$ 1.67 A
Wireless output: 5 W / 7.5 W / 10 W / 15 W
Wireless + USB-C Output: 5 V $\overline{=}$ 3 A(15 W Max)
Li Battery Energy:10000mAh/3.87V/38.7Wh

Radio Technology : Wireless power transmission systems

Operation frequency : 110.1KHz -205KHz

Modulation : ASK

Antenna Type : Coil Antenna

Connector cable loss : 0dBi

Software version : V1.0

Hardware version : V1.0

Note : Antenna information is provided by applicant.
Testing lab is not responsible for the accuracy of the information.

2.2. Accessories of Device (EUT)

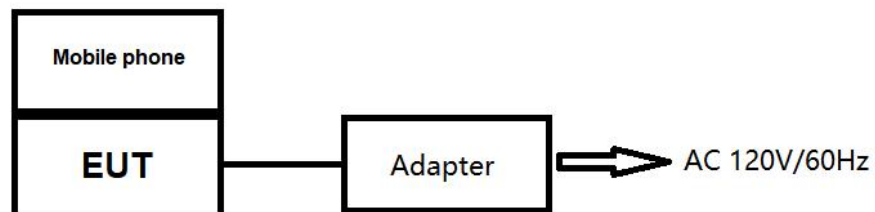
Accessories	:	N/A
Manufacturer	:	N/A
Model	:	N/A
specifications	:	N/A

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification
1	Adapter	N/A	HW-059200CHQ	N/A	N/A
2	Mobile phone	Xiaomi	Xiaomi 12S Pro	N/A	N/A
3	N/A	N/A	N/A	N/A	N/A

2.4. Block Diagram of connection between EUT and simulators

Mode1:



Mode2:



2.5. Equipment Approval Considerations

The EUT does comply with KDB 680106 D01 as follow table.

Requirements of KDB 680106 D01	Yes/No	Description
Mobile Device and Portable Device Configurations	Yes	Portable Device
Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz	Yes	The device operate in the frequency range 110.1KHz~205KHz

2.6. Description of Test Modes

Mode	Test mode description
1	AC Mains + Phone charging port (Battery Status: $\leq 1\%$)
2	AC Mains + Phone charging port (Battery Status:50%)
3	AC Mains + Phone charging port (Battery Status: $\geq 98\%$)
4	Phone charging port (Battery Status: $\leq 1\%$)
5	Phone charging port (Battery Status:50%)
6	Phone charging port (Battery Status: $\geq 98\%$)
7	Standby

Note:1. All test modes has been tested, this report only reflected the Model 4 worst mode.

2.7. Test Conditions

Items	Required	Actual
Temperature range:	15-35°C	26°C
Humidity range:	25-75%	54%
Pressure range:	86-106kPa	101kPa

2.8. Test Facility

Shenzhen PSI Testing Co., Ltd.

1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

September 13, 2023 File on Federal Communication Commission

Registration Number: 916281

2.9. Measurement Uncertainty

(95% confidence levels, k=2)

Item	Uncertainty
Uncertainty for H-Field	2.39dB
Uncertainty for E-Field	2.45dB
Uncertainty for conducted RF Power	0.65dB
Uncertainty for temperature	0.2°C
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

3. Test Results and Measurement Data

3.1. RF EXPOSURE TEST

3.1.1. Test Specification

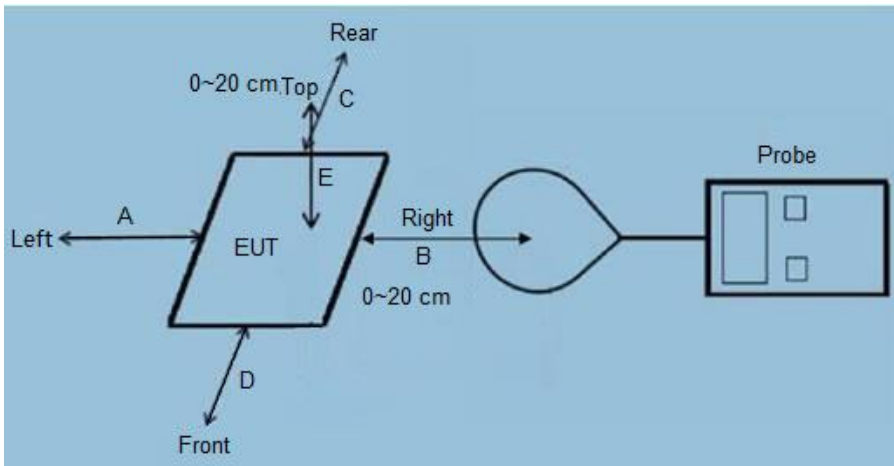
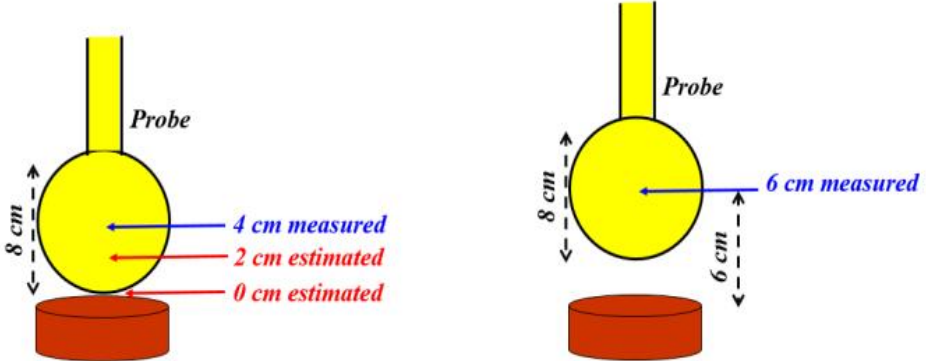
Test Requirement:	FCC Rules and Regulations KDB680106																																																																	
Test Method:	According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission’s guidelines. According to §1.1310 and §2.1093 RF exposure is calculated. According KDB680106 D01: KDB 680106 D01 Wireless Power Transfer v04.																																																																	
Limits:	According to the item 3 of KDB 680106 D01v04: Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation. (1) Mobile Device and Portable Device Configurations (2) Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz (3) The aggregate H-field strengths anywhere at (0/2/4/6/8/10/12/14/16/18/20cm) surrounding the device six surfaces. The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b) Limits for Maximum Permissible Exposure (MPE) <table><thead><tr><th>Frequency range (MHz)</th><th>Electric field strength (V/m)</th><th>Magnetic field strength (A/m)</th><th>Power density (mW/cm²)</th><th>Averaging time (minutes)</th></tr></thead><tbody><tr><td colspan="5">(A) Limits for Occupational/Controlled Exposures</td></tr><tr><td>0.3-3.0</td><td>614</td><td>1.63</td><td>*(100)</td><td>6</td></tr><tr><td>3.0-30</td><td>1842/f</td><td>4.89/f</td><td>*(900/f²)</td><td>6</td></tr><tr><td>30-300</td><td>61.4</td><td>0.163</td><td>1.0</td><td>6</td></tr><tr><td>300-1500</td><td>/</td><td>/</td><td>f/300</td><td>6</td></tr><tr><td>1500-100,000</td><td>/</td><td>/</td><td>5</td><td>6</td></tr><tr><td colspan="5">(B) Limits for General Population/Uncontrolled Exposure</td></tr><tr><td>0.3-1.34</td><td>614</td><td>1.63</td><td>*(100)</td><td>30</td></tr><tr><td>1.34-30</td><td>824/f</td><td>2.19/f</td><td>*(180/f²)</td><td>30</td></tr><tr><td>30-300</td><td>27.5</td><td>0.073</td><td>0.2</td><td>30</td></tr><tr><td>300-1500</td><td>/</td><td>/</td><td>f/1500</td><td>30</td></tr><tr><td>1500-100,000</td><td>/</td><td>/</td><td>1.0</td><td>30</td></tr></tbody></table> 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).	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
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Test Setup:																																																																		

Figure 1

	 Figure 2
Test Mode:	Communication Mode (Mobile phone will be charged at zero charge, intermediate charge, and full charge.)
Test Procedure:	1) The RF exposure test was performed in anechoic chamber. 2) The measurement probe was placed at test distance (0/2/4/6/8/10/12/14/16/18/20cm) which is between the edge of the charger and the geometric center of probe. 3) The highest emission level was recorded and compared with limit as soon as measurement of each point (A, B, C, D, E, F) were completed. 4) The EUT was measured according to the dictates of KDB 680106 D01v04. 5) Large size probes may prevent the measurement of E- and/or H-fields near the surface of the radiating structure (e.g., a WPT source coil), as in the example shown in Figure 2. These estimates shall include points spaced no more than 2 cm from each other. Thus, in the example of Figure 2, at least the estimates at 0 cm and 2 cm are required, while only one point would not be sufficient. In addition, the model needs to be validated through the probe measurements for the two closest points to the device surface, and with 2-cm increments, as indicated in Figure 2. In that example, the same model must also be applied to the 4 cm and 6 cm positions, and then compared with the measured data, for validation purposes. The validation is considered sufficient if a 30% agreement between the model and the (E- and/or H-field) probe measurements is demonstrated. If such a level of agreement cannot be shown, a more accurate model (and/or a smaller probe) shall be used.
Test Result:	PASS

3.1.2. Test Instruments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Exposure Level Tester	narda	ELT-400	O-0729	2024.05.06	1 Year
2	Magnetic field probe 100cm2	narda	ELT probe 100cm2	M-2116	2024.05.06	1 Year

Note: The probe radius is 8 cm

3.1.3. Test data

The probe radius is 8 cm.

E-Field Strength at 8/10/12/14/16/18/20cm from the edges surrounding the EUT

Charging Battery Level	Measured Distance (cm)	Measured E-Field Strength Values (V/m)						FCC E-Field Strength Limits (V/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	
99%	8	21.857	15.674	16.685	19.972	20.421	19.134	614
50%	8	21.815	14.878	17.767	20.828	21.284	19.755	614
1%	8	21.236	18.901	21.205	21.205	21.966	19.489	614
99%	10	21.106	13.780	16.498	21.263	21.935	18.841	614
50%	10	19.293	16.395	17.816	20.660	21.721	18.732	614
1%	10	20.738	16.045	17.788	19.121	21.474	20.174	614
99%	12	21.598	13.105	18.536	21.009	19.604	20.292	614
50%	12	19.809	17.182	15.970	18.811	19.465	20.732	614
1%	12	19.130	16.232	16.980	20.370	19.360	19.957	614
99%	14	21.064	17.674	17.502	20.090	21.408	18.838	614
50%	14	19.547	14.480	15.940	19.725	20.530	0.055	614
1%	14	19.447	9.394	18.150	20.415	19.912	19.299	614
99%	16	20.614	15.373	16.856	19.694	20.907	19.091	614
50%	16	20.934	16.314	18.223	20.753	18.913	19.903	614
1%	16	18.913	16.850	18.995	20.617	19.019	21.824	614
99%	18	20.234	17.080	17.846	19.535	19.779	20.280	614
50%	18	19.604	18.132	16.208	19.263	19.571	19.218	614
1%	18	19.022	18.847	17.831	21.242	18.968	21.751	614
99%	20	19.100	13.765	16.015	19.357	19.881	21.715	614
50%	20	22.165	13.445	17.249	21.447	20.451	19.453	614
1%	20	21.287	15.502	16.359	19.158	20.044	19.489	614

Note: $V/m = A/m \times 377$

H-Field Strength at 8/10/12/14/16/18/20cm from the edges surrounding the EUT

Charging Battery Level	Measured Distance (cm)	Unit	Measured H-Field Strength Values (A/m)						FCC H-Field Strength Limits (A/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	
99%	8	uT	0.072	0.052	0.055	0.066	0.068	0.063	--
99%	8	A/m	0.058	0.042	0.044	0.053	0.054	0.051	1.63
50%	8	uT	0.072	0.049	0.059	0.069	0.071	0.066	--
50%	8	A/m	0.058	0.039	0.047	0.055	0.056	0.052	1.63
1%	8	uT	0.070	0.063	0.058	0.070	0.073	0.065	--
1%	8	A/m	0.056	0.050	0.047	0.056	0.058	0.052	1.63
99%	10	uT	0.070	0.046	0.055	0.071	0.073	0.062	--
99%	10	A/m	0.056	0.037	0.044	0.056	0.058	0.050	1.63
50%	10	uT	0.064	0.054	0.059	0.069	0.072	0.062	--
50%	10	A/m	0.051	0.043	0.047	0.055	0.058	0.050	1.63
1%	10	uT	0.069	0.053	0.059	0.063	0.071	0.067	--
1%	10	A/m	0.055	0.043	0.047	0.051	0.057	0.054	1.63
99%	12	uT	0.072	0.043	0.061	0.070	0.065	0.067	--
99%	12	A/m	0.057	0.035	0.049	0.056	0.052	0.054	1.63
50%	12	uT	0.066	0.057	0.053	0.062	0.065	0.069	--
50%	12	A/m	0.053	0.046	0.042	0.050	0.052	0.055	1.63
1%	12	uT	0.063	0.054	0.056	0.068	0.064	0.066	--
1%	12	A/m	0.051	0.043	0.045	0.054	0.051	0.053	1.63
99%	14	uT	0.070	0.059	0.058	0.067	0.071	0.062	--
99%	14	A/m	0.056	0.047	0.046	0.053	0.057	0.050	1.63
50%	14	uT	0.065	0.048	0.053	0.065	0.068	0.069	--
50%	14	A/m	0.052	0.038	0.042	0.052	0.054	0.055	1.63
1%	14	uT	0.064	0.042	0.060	0.068	0.066	0.064	--
1%	14	A/m	0.052	0.034	0.048	0.054	0.053	0.051	1.63
99%	16	uT	0.068	0.051	0.056	0.065	0.069	0.063	--
99%	16	A/m	0.055	0.041	0.045	0.052	0.055	0.051	1.63
50%	16	uT	0.069	0.054	0.060	0.069	0.063	0.066	--
50%	16	A/m	0.056	0.043	0.048	0.055	0.050	0.053	1.63
1%	16	uT	0.063	0.056	0.063	0.068	0.063	0.072	--
1%	16	A/m	0.050	0.045	0.050	0.055	0.050	0.058	1.63
99%	18	uT	0.067	0.057	0.059	0.065	0.066	0.067	--
99%	18	A/m	0.054	0.045	0.047	0.052	0.052	0.054	1.63
50%	18	uT	0.065	0.060	0.054	0.064	0.065	0.064	--
50%	18	A/m	0.052	0.048	0.043	0.051	0.052	0.051	1.63
1%	18	uT	0.063	0.062	0.059	0.070	0.063	0.072	--
1%	18	A/m	0.050	0.050	0.047	0.056	0.050	0.058	1.63
99%	20	uT	0.063	0.046	0.053	0.064	0.066	0.072	--
99%	20	A/m	0.051	0.037	0.042	0.051	0.053	0.058	1.63
50%	20	uT	0.073	0.045	0.057	0.071	0.068	0.065	--
50%	20	A/m	0.059	0.036	0.046	0.057	0.054	0.052	1.63

1%	20	uT	0.071	0.051	0.054	0.064	0.066	0.065	--
1%	20	A/m	0.056	0.041	0.043	0.051	0.053	0.052	1.63

Note: $A/m = uT/1.25$

According to the formula:

The formula for the magnetic field strength at a distance r from the coil is

$$H = I/(2\pi r) \cdot \mu$$

H is A/m

I is the current intensity

μ is the permeability, and its value depends on the medium.

The other parameters are fixed, so H is inversely proportional to r .

ABCDEF direction The actual distance(r) to the antenna coil.

measured distance(cm)	Actual distance r to the antenna (cm)					
	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F
20	24.262	20.865	21.563	21.323	20.762	21.553
18	23.262	18.865	19.563	19.323	18.762	19.553
16	20.262	15.865	17.563	17.323	16.762	17.553
14	18.262	14.865	15.563	15.323	14.762	15.553
12	17.262	12.865	13.563	13.323	12.762	13.553
10	14.262	10.865	11.563	11.323	10.762	11.553
8	12.262	8.865	8.563	9.323	8.762	9.553
6	11.262	6.865	6.563	7.323	6.762	7.553
4	9.262	4.865	5.563	5.323	4.762	5.553
2	7.262	2.865	3.563	3.323	2.762	3.553
0	5.262	0.865	1.563	1.323	0.762	1.553

Note: The phone is 8.35mm thick.

The result is calculated by the above formula:

H-Field Strength at 0/2/4/6cm from the edges surrounding the EUT

Charging Battery Level	Measured Distance (cm)	Unit	Measured H-Field Strength Values (A/m)						FCC H-Field Strength Limits (A/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	
1%	0	A/m	0.6391	0.6445	0.6215	0.6715	0.7305	0.6958	1.63
50%	0	A/m	0.7009	0.7304	0.6451	0.7149	0.6237	0.7191	1.63
99%	0	A/m	0.7034	0.6990	0.6274	0.7260	0.6997	0.7384	1.63
1%	2	A/m	0.6346	0.6543	0.6828	0.6234	0.6467	0.6272	1.63
50%	2	A/m	0.7359	0.6231	0.6934	0.7132	0.6288	0.6418	1.63
99%	2	A/m	0.7128	0.7123	0.6897	0.7214	0.6535	0.6308	1.63
1%	4	A/m	0.6373	0.6436	0.7249	0.7324	0.6342	0.7223	1.63
50%	4	A/m	0.6358	0.6433	0.6900	0.6899	0.6349	0.6384	1.63
99%	4	A/m	0.6808	0.7088	0.7356	0.6531	0.6829	0.6416	1.63
1%	6	A/m	0.7184	0.6891	0.6617	0.6870	0.6682	0.6621	1.63
50%	6	A/m	0.7338	0.6491	0.6729	0.7286	0.7177	0.6902	1.63
99%	6	A/m	0.6800	0.7041	0.7035	0.7052	0.7383	0.7360	1.63

3.1.4. Conclusion

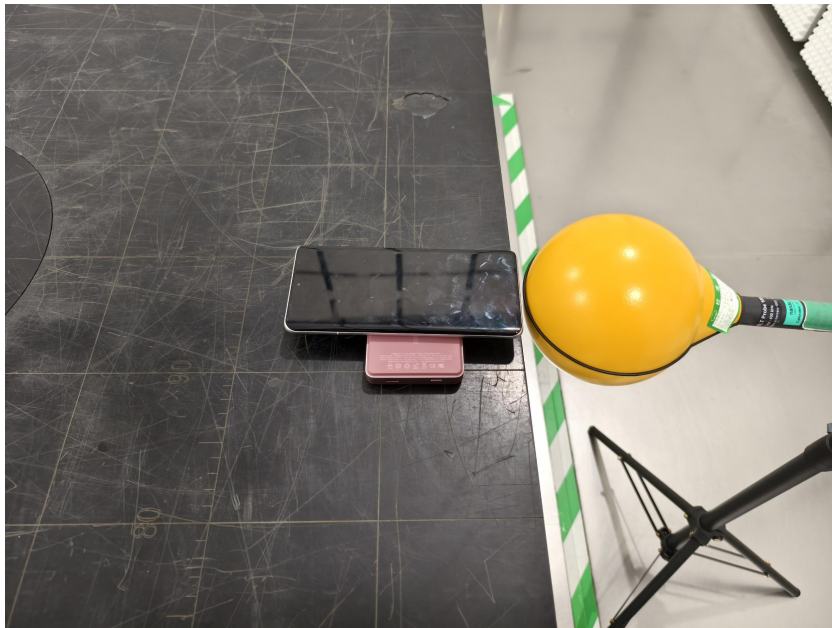
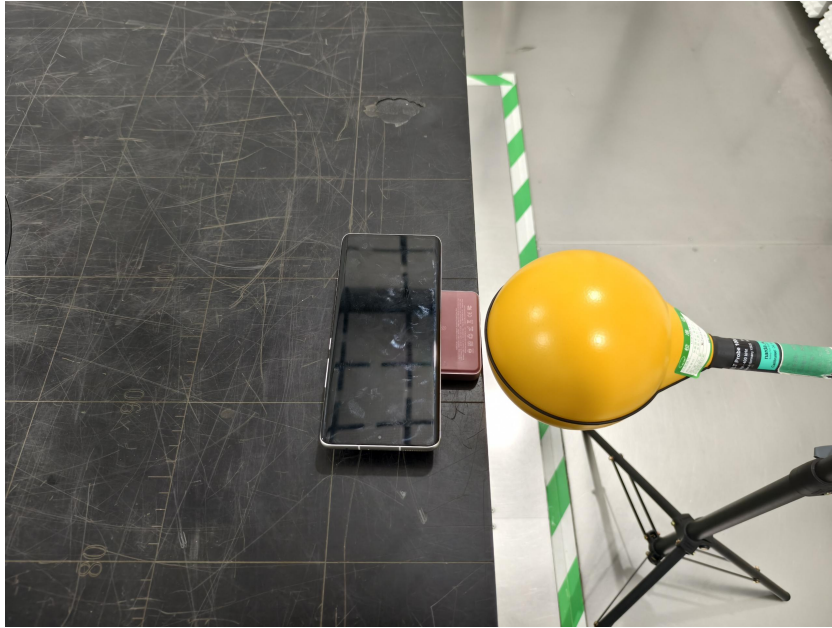
A minimum safety distance of 0 cm to the antenna is required when the device is charging a smart phone for mobile exposure. The detected emissions are below the limitations according FCC KDB 680106.

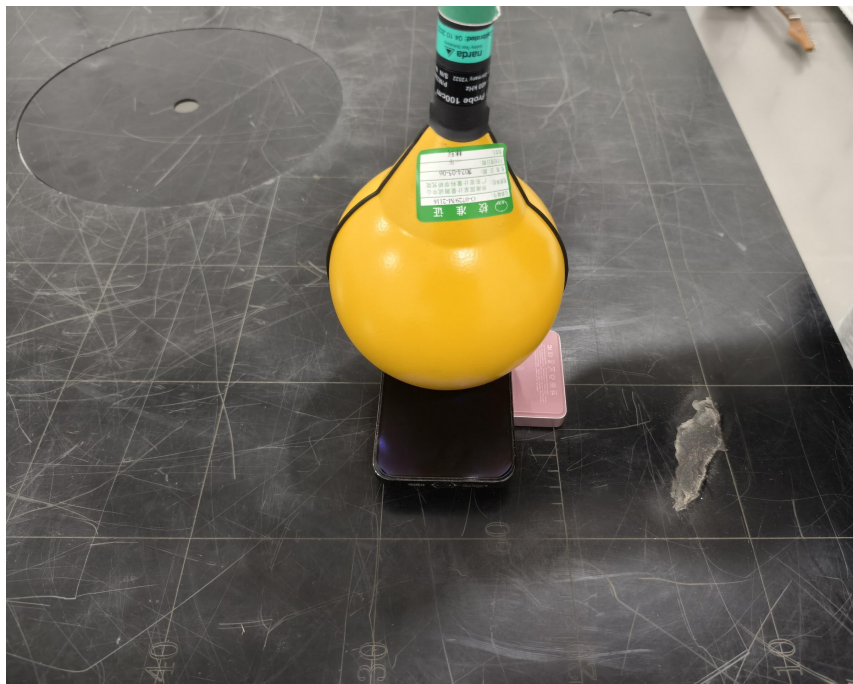
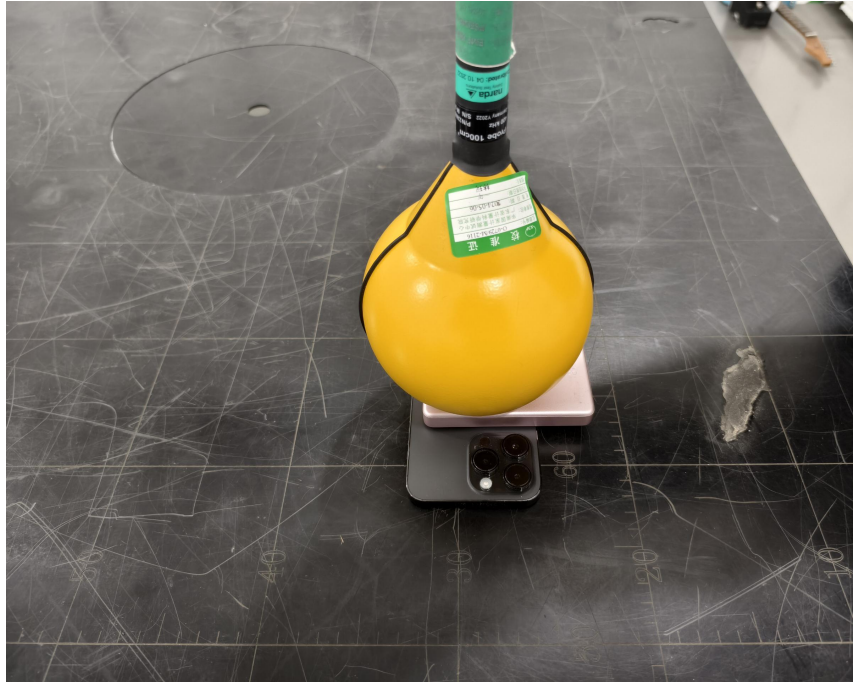
The model was established with a 30% agreement, so it was considered to be approved.

4. Photos of test setup

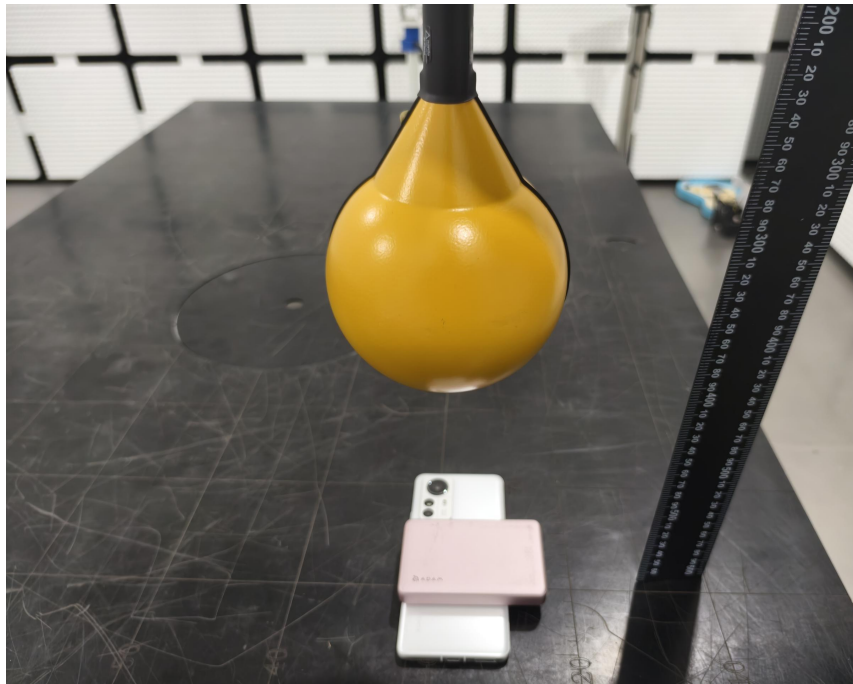
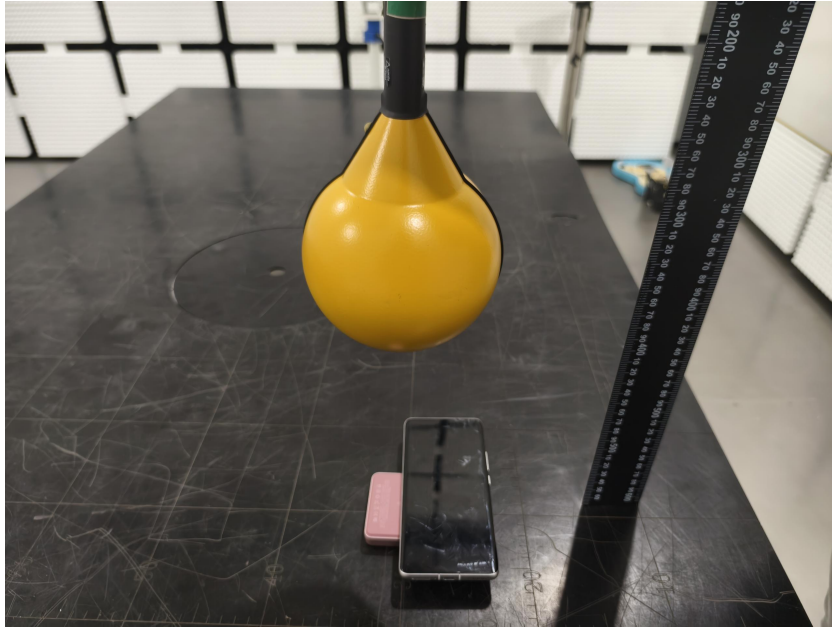
0cm

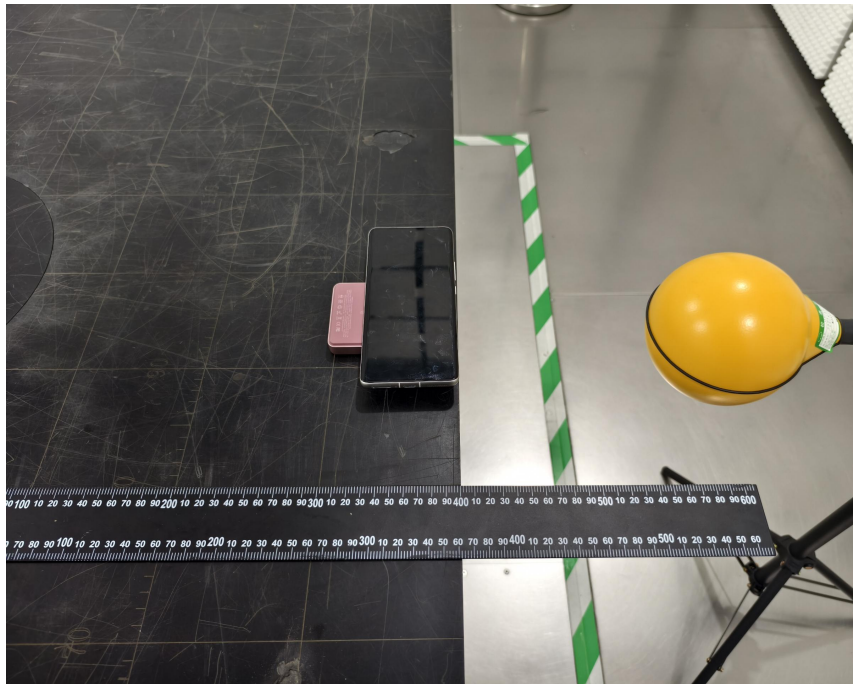
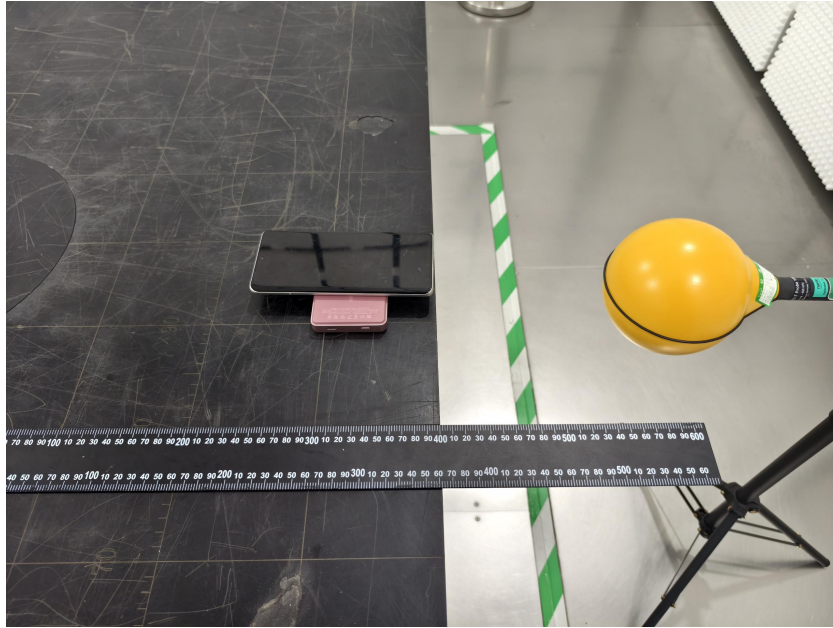


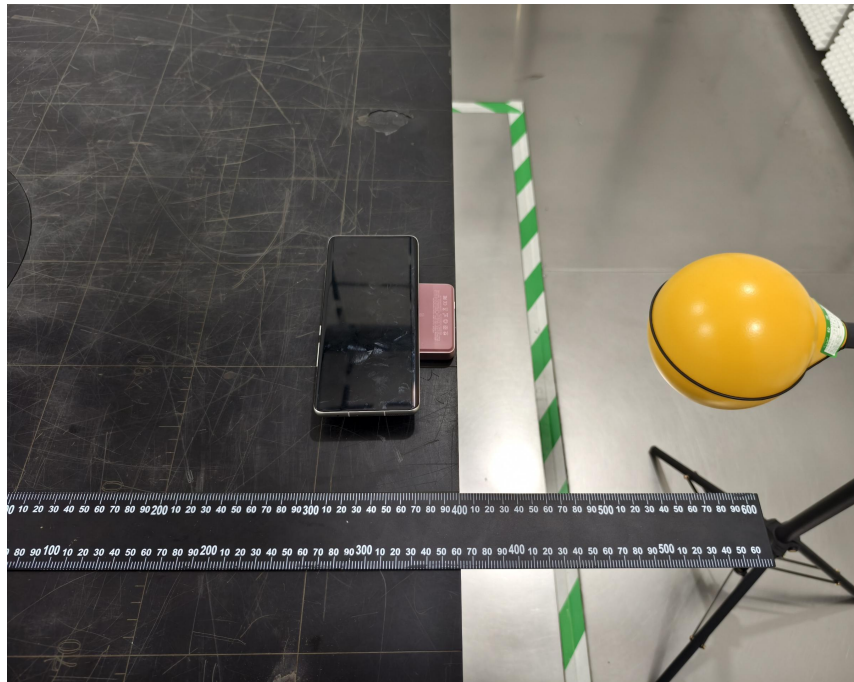
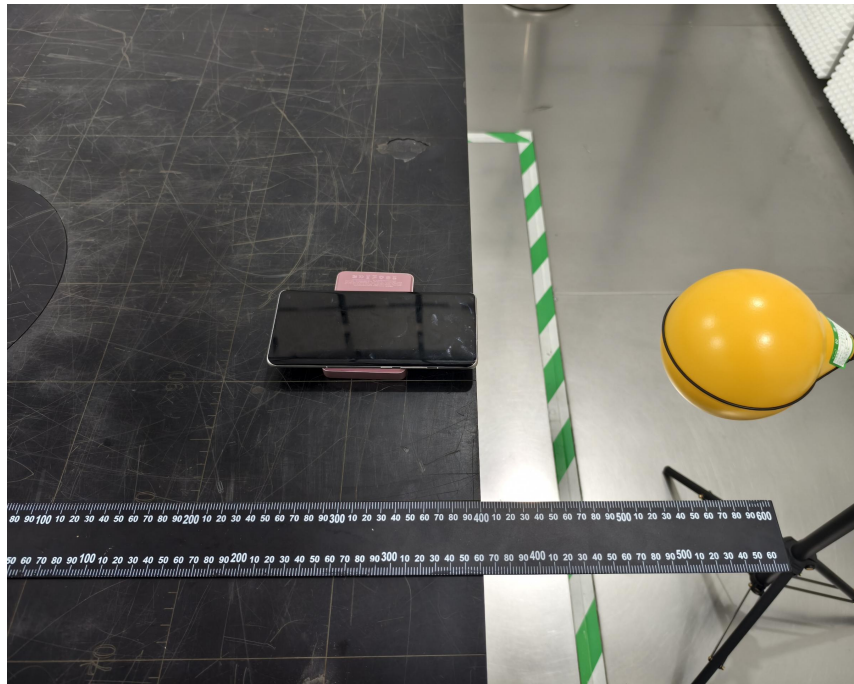




20cm







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