

FCC TEST REPORT

FCC ID: 2ABY9VIONTA-L5

On Behalf of

Adam Elements International Co., LTD.

Ultra Slim Magnetic Wireless Charging Power Bank

Model No.:VIONTA L5

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-R06
Date of Receipt : April 1, 2025
Date of Test : April 1, 2025-April 17, 2025
Date of Report : April 21, 2025
Version Number : V0

TABLE OF CONTENTS

Description	Page
1. Test Result Summary	5
2. EUT Description	6
2.1. DESCRIPTION OF DEVICE (EUT)	6
2.2. ACCESSORIES OF DEVICE (EUT)	7
2.3. TESTED SUPPORTING SYSTEM DETAILS	7
2.4. EQUIPMENT APPROVAL CONSIDERATIONS	8
2.5. DESCRIPTION OF TEST MODES	8
2.6. TEST CONDITIONS	9
2.7. TEST FACILITY	9
2.8. MEASUREMENT UNCERTAINTY	9
3. Test Results and Measurement Data	10
3.1. RF EXPOSURE TEST	10
4. Photos of test setup	17

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 L5
(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 L5
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:5000mAh/3.87V/19.35Wh

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.

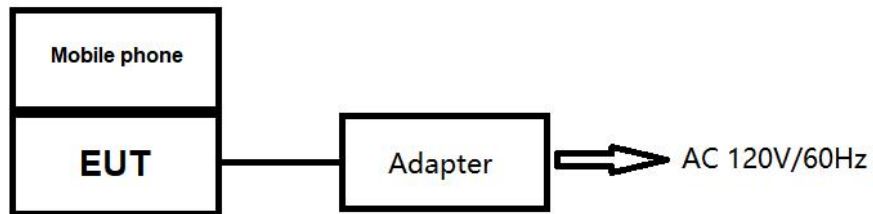
2.2. Accessories of Device (EUT)

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	/	/
2	Mobile phone	Apple Inc.	iPhone 15 Pro	/	/

Mode1:



Mode2:



2.4. 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

2.5. Description of Test Modes

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

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

2.6. Test Conditions

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

2.7. 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

2.8. Measurement Uncertainty

(95% confidence levels, k=2)

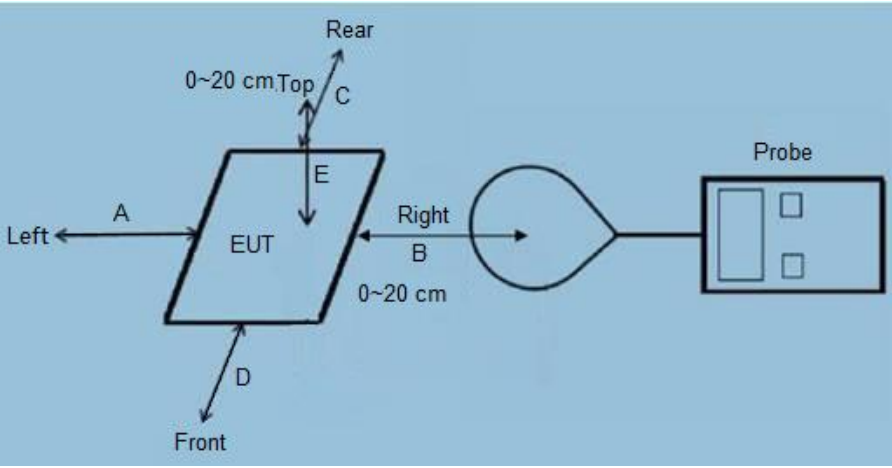
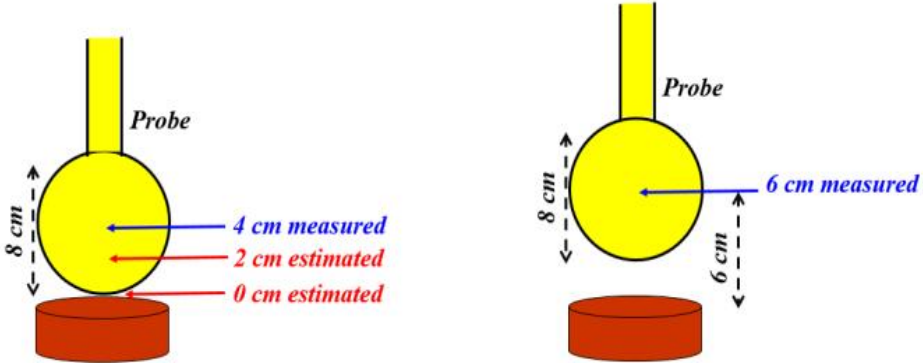
Item	Uncertainty
Uncertainty for H-Field	2.39dB
Uncertainty for E-Field	2.45dB
Uncertainty for conducted RF Power	0.65dB
Uncertainty for temperature	0.2℃
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

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 border="1"> <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 cm² 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	20.753	16.229	18.229	21.730	20.901	19.179	614
50%	8	20.608	16.437	15.710	19.468	21.447	18.980	614
1%	8	18.977	17.333	21.815	21.815	21.275	20.017	614
99%	10	19.483	16.754	16.703	21.344	20.123	21.055	614
50%	10	19.462	15.632	17.568	19.821	20.789	21.386	614
1%	10	19.863	17.852	18.205	20.844	21.902	20.150	614
99%	12	19.459	12.731	18.407	21.959	18.705	19.688	614
50%	12	19.553	13.195	16.036	20.623	20.657	18.823	614
1%	12	21.510	13.747	18.784	20.536	19.372	20.071	614
99%	14	21.570	15.526	18.778	20.871	20.099	20.533	614
50%	14	21.570	13.382	16.232	19.384	20.678	0.058	614
1%	14	19.263	12.292	18.370	20.243	21.070	20.044	614
99%	16	21.480	17.538	17.221	20.090	21.444	21.040	614
50%	16	20.482	12.990	18.536	19.254	18.886	19.194	614
1%	16	22.005	16.570	15.949	18.763	21.956	21.139	614
99%	18	21.299	16.271	16.763	20.997	21.637	20.358	614
50%	18	19.538	15.780	18.226	20.886	20.835	19.694	614
1%	18	21.233	15.481	16.006	21.800	21.151	20.252	614
99%	20	20.144	18.030	16.733	21.613	20.638	20.322	614
50%	20	19.897	14.905	17.873	18.799	21.923	21.625	614
1%	20	18.962	18.832	18.241	21.486	19.888	19.619	614

Note: V/m= A/m *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	0.069	0.054	0.060	0.072	0.069	0.064	--
99%	8	A/m	0.055	0.043	0.048	0.058	0.055	0.051	1.63
50%	8	uT	0.068	0.055	0.052	0.065	0.071	0.063	--
50%	8	A/m	0.055	0.044	0.042	0.052	0.057	0.050	1.63
1%	8	uT	0.063	0.057	0.058	0.072	0.071	0.066	--
1%	8	A/m	0.050	0.046	0.046	0.058	0.056	0.053	1.63
99%	10	uT	0.065	0.056	0.055	0.071	0.067	0.070	--
99%	10	A/m	0.052	0.044	0.044	0.057	0.053	0.056	1.63
50%	10	uT	0.065	0.052	0.058	0.066	0.069	0.071	--
50%	10	A/m	0.052	0.041	0.047	0.053	0.055	0.057	1.63
1%	10	uT	0.066	0.059	0.060	0.069	0.073	0.067	--
1%	10	A/m	0.053	0.047	0.048	0.055	0.058	0.053	1.63
99%	12	uT	0.065	0.042	0.061	0.073	0.062	0.065	--
99%	12	A/m	0.052	0.034	0.049	0.058	0.050	0.052	1.63
50%	12	uT	0.065	0.044	0.053	0.068	0.068	0.062	--
50%	12	A/m	0.052	0.035	0.043	0.055	0.055	0.050	1.63
1%	12	uT	0.071	0.046	0.062	0.068	0.064	0.067	--
1%	12	A/m	0.057	0.036	0.050	0.054	0.051	0.053	1.63
99%	14	uT	0.072	0.051	0.062	0.069	0.067	0.068	--
99%	14	A/m	0.057	0.041	0.050	0.055	0.053	0.054	1.63
50%	14	uT	0.072	0.044	0.054	0.064	0.069	0.072	--
50%	14	A/m	0.057	0.035	0.043	0.051	0.055	0.058	1.63
1%	14	uT	0.064	0.055	0.061	0.067	0.070	0.066	--
1%	14	A/m	0.051	0.044	0.049	0.054	0.056	0.053	1.63
99%	16	uT	0.071	0.058	0.057	0.067	0.071	0.070	--
99%	16	A/m	0.057	0.047	0.046	0.053	0.057	0.056	1.63
50%	16	uT	0.068	0.043	0.061	0.064	0.063	0.064	--
50%	16	A/m	0.054	0.034	0.049	0.051	0.050	0.051	1.63
1%	16	uT	0.073	0.055	0.053	0.062	0.073	0.070	--
1%	16	A/m	0.058	0.044	0.042	0.050	0.058	0.056	1.63
99%	18	uT	0.071	0.054	0.056	0.070	0.072	0.068	--
99%	18	A/m	0.056	0.043	0.044	0.056	0.057	0.054	1.63
50%	18	uT	0.065	0.052	0.060	0.069	0.069	0.065	--
50%	18	A/m	0.052	0.042	0.048	0.055	0.055	0.052	1.63
1%	18	uT	0.070	0.051	0.053	0.072	0.070	0.067	--
1%	18	A/m	0.056	0.041	0.042	0.058	0.056	0.054	1.63
99%	20	uT	0.067	0.060	0.055	0.072	0.068	0.067	--
99%	20	A/m	0.053	0.048	0.044	0.057	0.055	0.054	1.63
50%	20	uT	0.066	0.049	0.059	0.062	0.073	0.072	--

50%	20	A/m	0.053	0.040	0.047	0.050	0.058	0.057	1.63
1%	20	uT	0.063	0.062	0.060	0.071	0.066	0.065	--
1%	20	A/m	0.050	0.050	0.048	0.057	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	24.256	20.814	21.510	21.348	20.716	21.584
18	23.256	18.814	19.510	19.348	18.716	19.584
16	20.256	15.814	17.510	17.348	16.716	17.584
14	18.256	14.814	15.510	15.348	14.716	15.584
12	17.256	12.814	13.510	13.348	12.716	13.584
10	14.256	10.814	11.510	11.348	10.716	11.584
8	12.256	8.814	8.510	9.348	8.716	9.584
6	11.256	6.814	6.510	7.348	6.716	7.584
4	9.256	4.814	5.510	5.348	4.716	5.584
2	7.256	2.814	3.510	3.348	2.716	3.584
0	5.256	0.814	1.510	1.348	0.716	1.584

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	0.6670	0.7188	0.7174	0.6496	0.6412	0.6388	1.63
50%	0	A/m	0.7196	0.7271	0.6811	0.7058	0.7346	0.7018	1.63
99%	0	A/m	0.6659	0.7243	0.6589	0.7051	0.6719	0.6766	1.63
1%	2	A/m	0.6657	0.6242	0.7005	0.6521	0.6435	0.6242	1.63
50%	2	A/m	0.7071	0.7166	0.6287	0.7055	0.6645	0.7336	1.63
99%	2	A/m	0.6687	0.6561	0.6566	0.6434	0.7155	0.6861	1.63
1%	4	A/m	0.6309	0.6626	0.6581	0.7308	0.6747	0.7166	1.63
50%	4	A/m	0.6584	0.7121	0.6465	0.6717	0.6306	0.7271	1.63
99%	4	A/m	0.6898	0.6610	0.6328	0.6748	0.6307	0.6269	1.63
1%	6	A/m	0.6684	0.6312	0.6934	0.6866	0.6441	0.7140	1.63
50%	6	A/m	0.6854	0.6499	0.7340	0.6712	0.7008	0.6529	1.63
99%	6	A/m	0.7370	0.6729	0.7187	0.6702	0.6262	0.6515	1.63

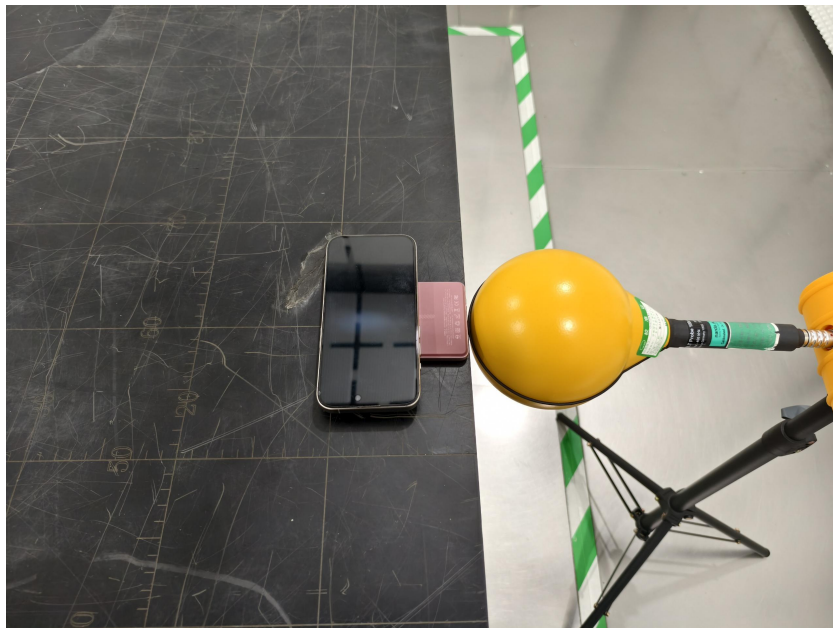
3.1.4. Conclusion

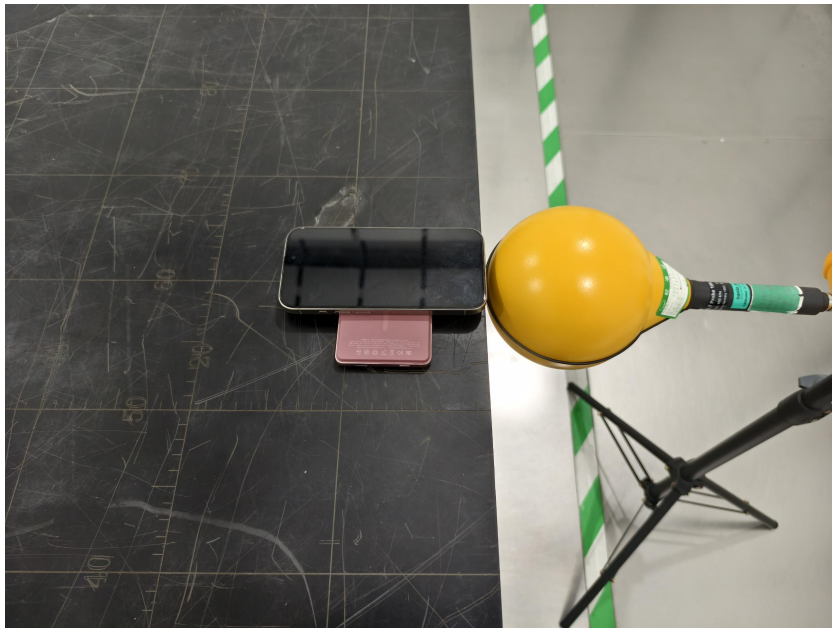
A minimum safety distance of 0 cm to the antenna is required when the device is charging a smart phone for mobile exposure. The detected emissions are below the limitations according FCC KDB 680106.

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

4. Photos of test setup

0cm

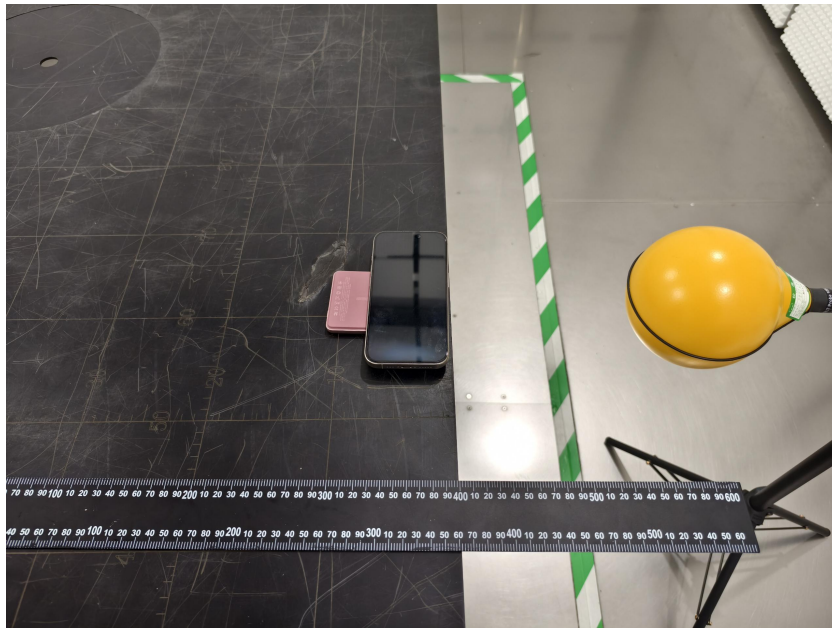
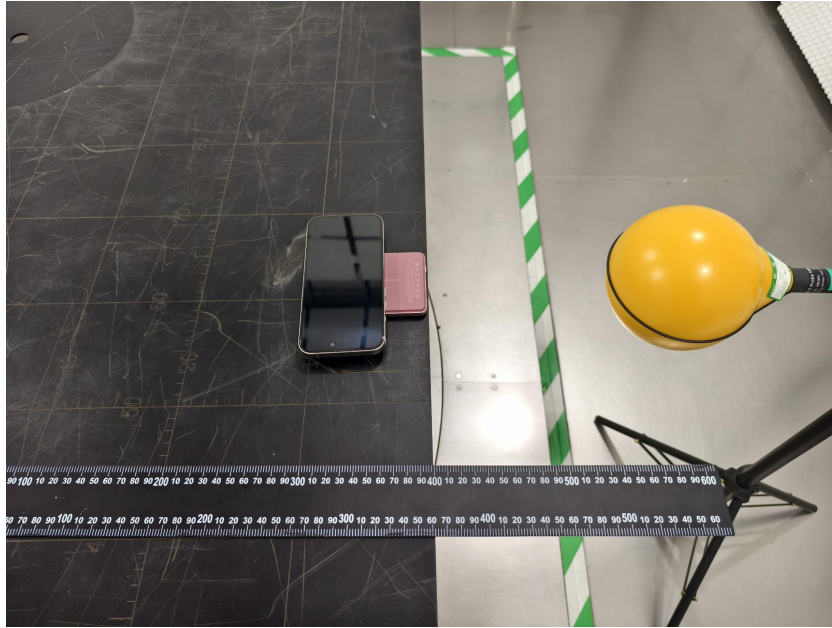


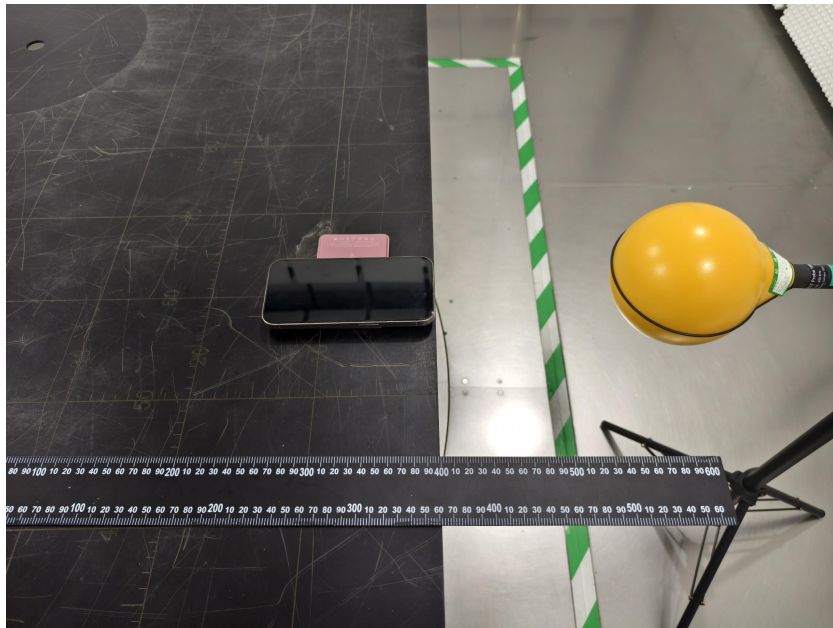




20cm







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