



TEST REPORT

Applicant: Shenzhen Yujie Technology Co., Ltd.
Address of Applicant: 823, Jiaxiye Plaza, No. 318, Minzhi Avenue, Minzhi Street, Longhua District, Shenzhen
Manufacturer/Factory: Shenzhen Yujie Technology Co., Ltd.
Address of Manufacturer/Factory: 823, Jiaxiye Plaza, No. 318, Minzhi Avenue, Minzhi Street, Longhua District, Shenzhen
Product Name: Magnetic wireless power bank
Model No.: PO1
Trade Mark: N/A
FCC ID: 2A7WB-PO1
Applicable standards: FCC CFR Title 47 Part 1.1310
Date of Test: Jul.13,2022- Jul.19,2022
Date of report issued: Aug.03,2022
Test Result : PASS

Remark:

* In the configuration tested, the EUT complied with the standards specified above.

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver

Prepared By

Shenzhen ETR Standard Technology Co., Ltd.

Address: No.103, No.10, Phase I, Zone 3, Xinxing Industrial Park, Xinhe, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Compiled by:

Project Engineer

Reviewed by:

Project Manager

Approved by:



Authorized Signature



Report Revision History		
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1 Test Summary

Test Item	Section in CFR 47	Result	Test by
RF EXPOSURE	KDB 680106 D01 RF Exposure Wireless Charging App v03r01	Pass	Yvan

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.

Measurement Uncertainty

Test Item	Measurement Uncertainty	Notes
H-Field	$\pm 2.39\text{dB}$	(1)
E-Field	$\pm 2.45\text{dB}$	(1)
conducted RF Power	$\pm 0.65\text{dB}$	(1)
temperature	$\pm 0.2^{\circ}\text{C}$	(1)
humidity	$\pm 1\%$	(1)
DC and low frequency voltages	0.06%	

Note (1): The measurement uncertainty is for coverage factor of $k=2$ and a level of confidence of 95%.

2 General Information

2.1 General Description of EUT

Product Name:	Magnetic wireless power bank
Model No.:	PO1
Sample(s) Status:	Engineer sample
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	115~205KHz
Modulation type:	ASK
Antenna Type:	Induction coil Antenna
Power supply:	Input: DC 5V from adapter Output: wireless 5W/7.5W

2.2 Test mode

Transmitting mode		Keep the EUT in continuously transmitting mode.	
	Test mode		Description
	Mode 1		AC/DC Adapter +Wireless charging(7.5W)
	Mode 2		Battery+ Wireless charging(7.5W)
	We tested the above two modes, and only show the worst mode (mode2) data in the report.		

2.3 Description of Support Units

Equipment	Model	S/N	Manufacturer
Adapter	HW-050200CH0	/	HUAWEI
Phone	iphone 13	/	Apple
/	/	/	/

2.4 Deviation from Standards

None.

2.5 Abnormalities from Standard Conditions

None.

2.6 Test Facility

Test laboratory:	Shenzhen ETR Standard Technology Co., Ltd.
CNAS Registration Number:	L11864
A2LA Certificate Number:	6640.01
FCC Designation Number:	CN1326
FCC Test Firm Registration:	183064

2.7 Test Location

All tests were performed at:	
Laboratory location:	No.103, No.10, Phase I, Zone 3, Xinxing Industrial Park, Xinhe, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	+86 755 85259392
Fax:	+86 755 27219460

2.8 Additional Instructions

Test Software	/
Power level setup	Default

3 Test Instruments list

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	Exposure level Tester	Narda	ELT-400	N-0231	2021.8.31	2022.8.30
2	Magnetic field probe	Narda	ELT Probe 100cm2	M0675	2021.8.31	2022.8.30

Note: the calibration interval of the above test instruments is 12 or 24 months and the calibrations are traceable to international system unit (SI).

4 Maximum permissible exposure

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				

4.2 Requirements

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting and RF exposure evaluation.

Requirements of KDB 680106 D01	Yes / No	Description
Power transfer frequency is less than 1 MHz	Yes	The device operate in the frequency range 115 KHz - 205 KHz
Output power from each primary coil is less than or equal to 15 watts	Yes	The maximum output power of the primary coil is 7.5W.
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.	Yes	The transfer system includes one coil.
Client device is placed directly in contact with the transmitter.	Yes	Client device is placed directly in contact with the transmitter.
Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	No	Portable exposure conditions
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.	Yes	The EUT 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.

4.3 Measure Procedures

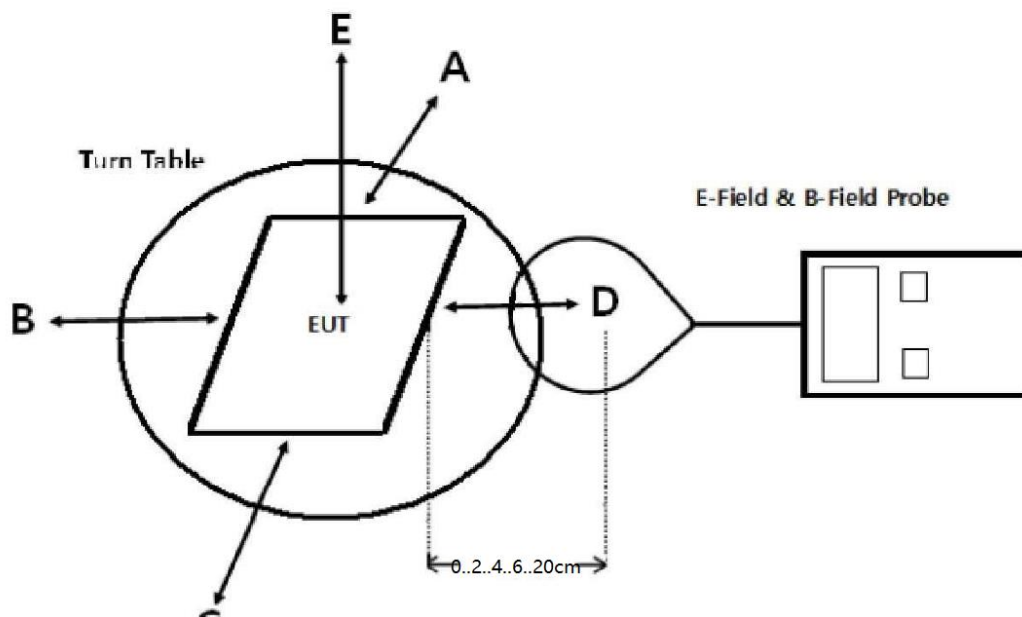
For portable device

E- and H-field data are taken along all three axes the device, from 0 cm to 20 cm, in 2cm minimum increment measured from the edge of the device, with one axis coincident with the axis of the main coil

For mobile device

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.

4.4 Measure setup



4.5 Measurement data

Note:

1. The radius of the probe head has 5cm, so 5cm is the closest test distance.
2. $A/m = uT/1.25$

Operation frequency	Test Distance (cm)	Test Position	Measure Result (uT)	Result (A/m)	50% Limit (A/m)
115-205K	5	A	0.690	0.552	0.815
		B	0.670	0.536	0.815
		C	0.678	0.542	0.815
		D	0.748	0.598	0.815
		E	0.716	0.573	0.815
		F	0.696	0.557	0.815

Operation frequency	Test Distance (cm)	Test Position	10% Charge		50% Charge		90% Charge		50% Limit (A/m)
			(uT)	(A/m)	(uT)	(A/m)	(uT)	(A/m)	
115-205K	5	A	0.654	0.523	0.693	0.554	0.711	0.569	0.815
		B	0.658	0.526	0.686	0.549	0.776	0.621	0.815
		C	0.736	0.589	0.716	0.573	0.751	0.601	0.815
		D	0.699	0.559	0.701	0.561	0.739	0.591	0.815
		E	0.670	0.536	0.715	0.572	0.729	0.583	0.815
		F	0.685	0.548	0.691	0.553	0.749	0.599	0.815

Operation frequency	Test Distance (cm)	Test Position	Measure Result (uT)	Result (A/m)	50% Limit (A/m)
115-205K	7	A	0.640	0.512	0.815
		B	0.695	0.556	0.815
		C	0.749	0.599	0.815
		D	0.664	0.531	0.815
		E	0.674	0.539	0.815
		F	0.703	0.562	0.815

Operation frequency	Test Distance (cm)	Test Position	10% Charge		50% Charge		90% Charge		50% Limit (A/m)
			(uT)	(A/m)	(uT)	(A/m)	(uT)	(A/m)	
115-205K	7	A	0.705	0.564	0.691	0.553	0.713	0.570	0.815
		B	0.628	0.502	0.720	0.576	0.643	0.514	0.815
		C	0.658	0.526	0.669	0.535	0.683	0.546	0.815
		D	0.686	0.549	0.669	0.535	0.690	0.552	0.815
		E	0.645	0.516	0.655	0.524	0.664	0.531	0.815
		F	0.705	0.564	0.691	0.553	0.713	0.570	0.815

Operation frequency	Test Distance (cm)	Test Position	Measure Result (uT)	Result (A/m)	50% Limit (A/m)
115-205K	9	A	0.661	0.529	0.815
		B	0.726	0.581	0.815
		C	0.705	0.564	0.815
		D	0.691	0.553	0.815
		E	0.686	0.549	0.815
		F	0.715	0.572	0.815

Operation frequency	Test Distance (cm)	Test Position	10% Charge		50% Charge		90% Charge		50% Limit (A/m)
			(uT)	(A/m)	(uT)	(A/m)	(uT)	(A/m)	
115-205K	9	A	0.686	0.549	0.696	0.557	0.659	0.527	0.815
		B	0.709	0.567	0.690	0.552	0.670	0.536	0.815
		C	0.661	0.529	0.714	0.571	0.671	0.537	0.815
		D	0.686	0.549	0.658	0.526	0.715	0.572	0.815
		E	0.690	0.552	0.674	0.539	0.685	0.548	0.815
		F	0.686	0.549	0.696	0.557	0.659	0.527	0.815

Operation frequency	Test Distance (cm)	Test Position	Measure Result (uT)	Result (A/m)	50% Limit (A/m)
115-205K	11	A	0.678	0.542	0.815
		B	0.751	0.601	0.815
		C	0.736	0.589	0.815
		D	0.686	0.549	0.815
		E	0.741	0.593	0.815
		F	0.733	0.586	0.815

Operation frequency	Test Distance (cm)	Test Position	10% Charge		50% Charge		90% Charge		50% Limit (A/m)
			(uT)	(A/m)	(uT)	(A/m)	(uT)	(A/m)	
115-205K	11	A	0.671	0.537	0.715	0.572	0.693	0.554	0.815
		B	0.729	0.583	0.674	0.539	0.718	0.574	0.815
		C	0.760	0.608	0.709	0.567	0.668	0.534	0.815
		D	0.703	0.562	0.685	0.548	0.671	0.537	0.815
		E	0.699	0.559	0.716	0.573	0.740	0.592	0.815
		F	0.733	0.537	0.733	0.572	0.693	0.554	0.815

Operation frequency	Test Distance (cm)	Test Position	Measure Result (uT)	Result (A/m)	50% Limit (A/m)
115-205K	13	A	0.710	0.568	0.815
		B	0.724	0.579	0.815
		C	0.658	0.526	0.815
		D	0.709	0.567	0.815
		E	0.686	0.549	0.815
		F	0.696	0.557	0.815

Operation frequency	Test Distance (cm)	Test Position	10% Charge		50% Charge		90% Charge		50% Limit (A/m)
			(uT)	(A/m)	(uT)	(A/m)	(uT)	(A/m)	
115-205K	13	A	0.704	0.563	0.680	0.544	0.650	0.520	0.815
		B	0.655	0.524	0.724	0.579	0.679	0.543	0.815
		C	0.715	0.572	0.726	0.581	0.689	0.551	0.815
		D	0.661	0.529	0.668	0.534	0.683	0.546	0.815
		E	0.659	0.527	0.679	0.543	0.690	0.552	0.815
		F	0.704	0.563	0.680	0.544	0.650	0.520	0.815

Operation frequency	Test Distance (cm)	Test Position	Measure Result (uT)	Result (A/m)	50% Limit (A/m)
115-205K	15	A	0.679	0.543	0.815
		B	0.729	0.583	0.815
		C	0.668	0.534	0.815
		D	0.660	0.528	0.815
		E	0.706	0.565	0.815
		F	0.716	0.573	0.815

Operation frequency	Test Distance (cm)	Test Position	10% Charge		50% Charge		90% Charge		50% Limit (A/m)
			(uT)	(A/m)	(uT)	(A/m)	(uT)	(A/m)	
115-205K	15	A	0.671	0.537	0.703	0.562	0.693	0.554	0.815
		B	0.709	0.567	0.671	0.537	0.678	0.542	0.815
		C	0.715	0.572	0.669	0.535	0.699	0.559	0.815
		D	0.715	0.572	0.726	0.581	0.680	0.544	0.815
		E	0.671	0.537	0.705	0.564	0.720	0.576	0.815
		F	0.699	0.559	0.668	0.534	0.659	0.527	0.815

Operation frequency	Test Distance (cm)	Test Position	Measure Result (uT)	Result (A/m)	50% Limit (A/m)
115-205K	17	A	0.733	0.586	0.815
		B	0.641	0.513	0.815
		C	0.661	0.529	0.815
		D	0.693	0.554	0.815
		E	0.674	0.539	0.815
		F	0.714	0.571	0.815

Operation frequency	Test Distance (cm)	Test Position	10% Charge		50% Charge		90% Charge		50% Limit (A/m)
			(uT)	(A/m)	(uT)	(A/m)	(uT)	(A/m)	
115-205K	17	A	0.701	0.561	0.668	0.534	0.658	0.526	0.815
		B	0.686	0.549	0.690	0.552	0.671	0.537	0.815
		C	0.689	0.551	0.718	0.574	0.668	0.534	0.815
		D	0.729	0.583	0.680	0.544	0.691	0.553	0.815
		E	0.661	0.529	0.671	0.537	0.679	0.543	0.815
		F	0.713	0.570	0.701	0.561	0.743	0.594	0.815

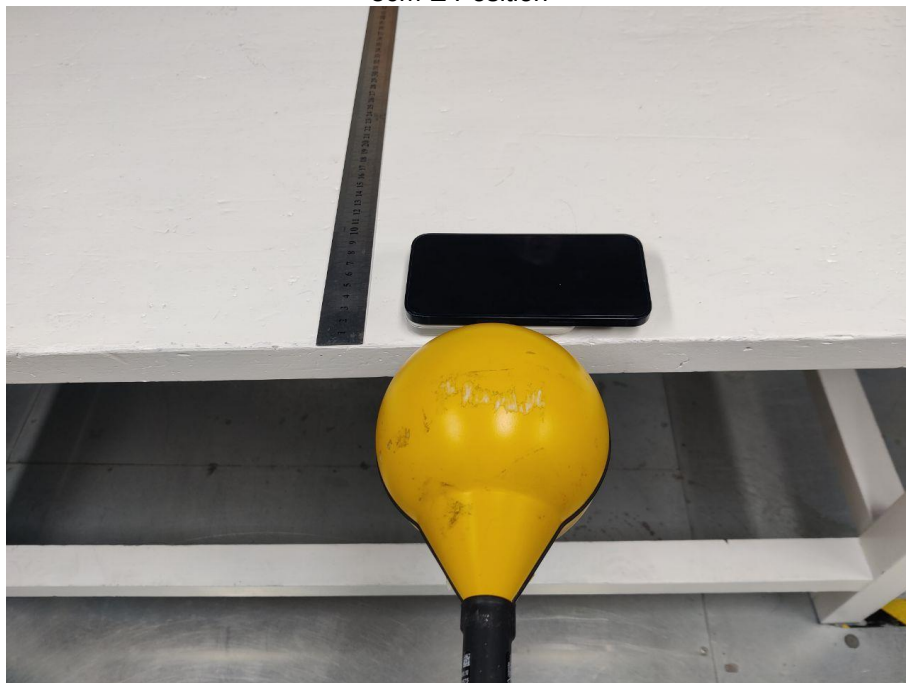
Operation frequency	Test Distance (cm)	Test Position	Measure Result (uT)	Result (A/m)	50% Limit (A/m)
115-205K	20	A	0.645	0.516	0.815
		B	0.660	0.528	0.815
		C	0.668	0.534	0.815
		D	0.658	0.526	0.815
		E	0.679	0.543	0.815
		F	0.720	0.576	0.815

Operation frequency	Test Distance (cm)	Test Position	10% Charge		50% Charge		90% Charge		50% Limit (A/m)
			(uT)	(A/m)	(uT)	(A/m)	(uT)	(A/m)	
115-205K	20	A	0.676	0.541	0.654	0.523	0.676	0.541	0.815
		B	0.665	0.532	0.651	0.521	0.671	0.537	0.815
		C	0.645	0.516	0.659	0.527	0.644	0.515	0.815
		D	0.671	0.537	0.683	0.546	0.653	0.522	0.815
		E	0.643	0.514	0.664	0.531	0.675	0.54	0.815
		F	0.658	0.526	0.653	0.522	0.651	0.521	0.815

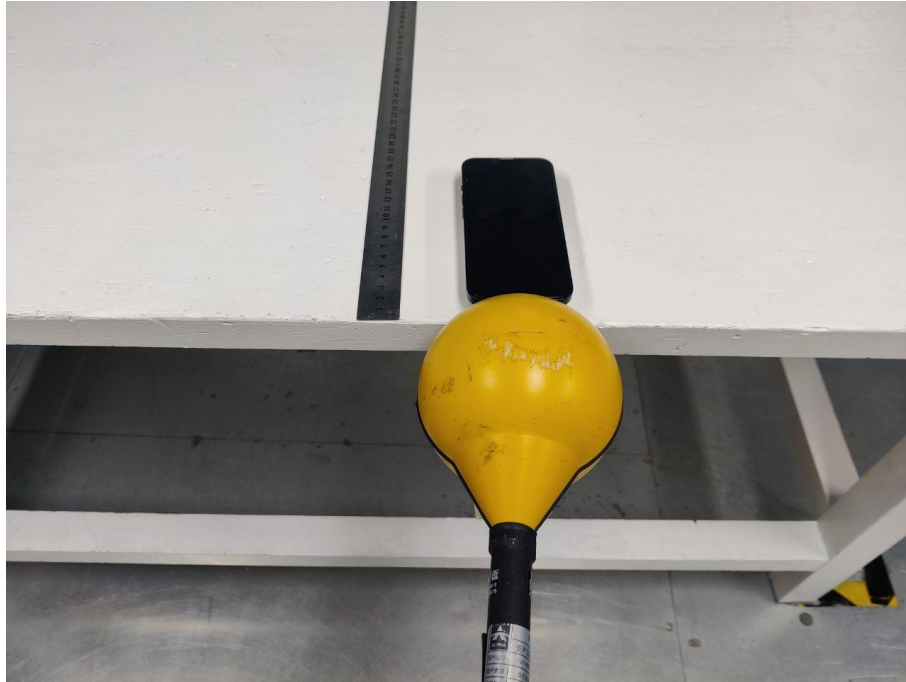
5 Test Setup Photo



5cm E Position



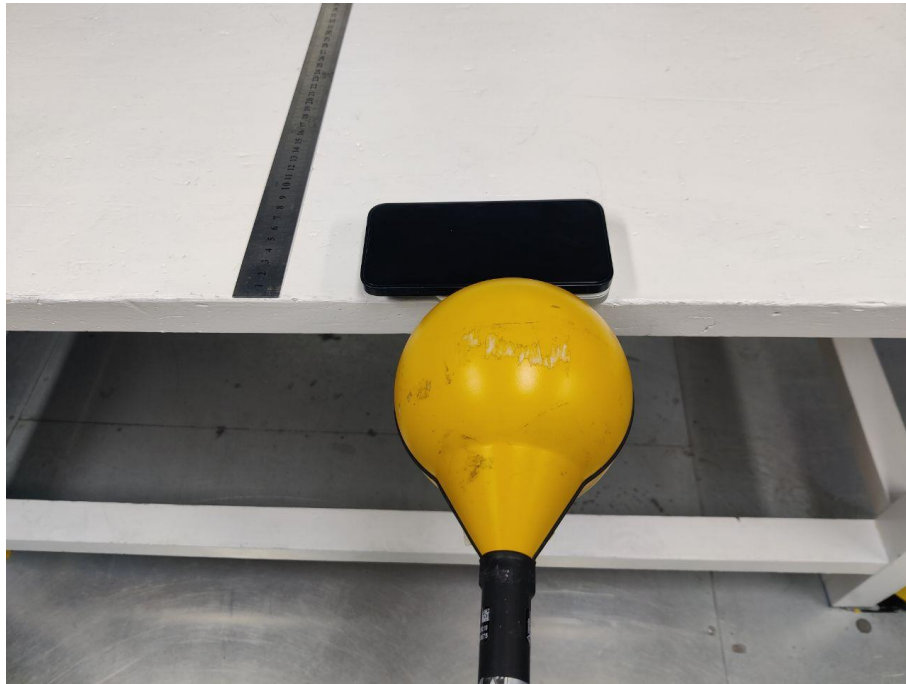
5cm D Position



5cm C Position



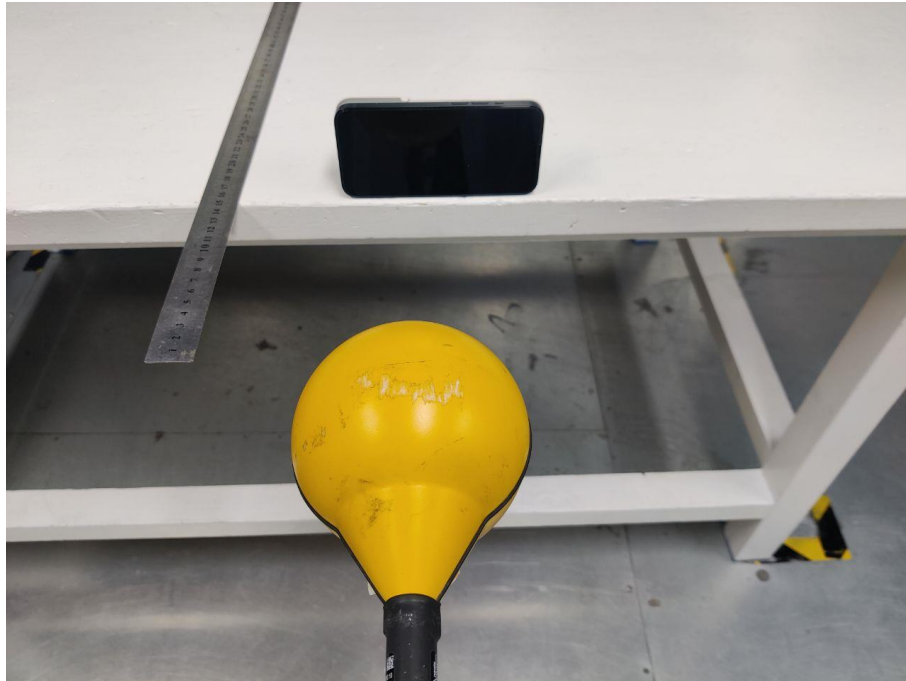
5cm A Position



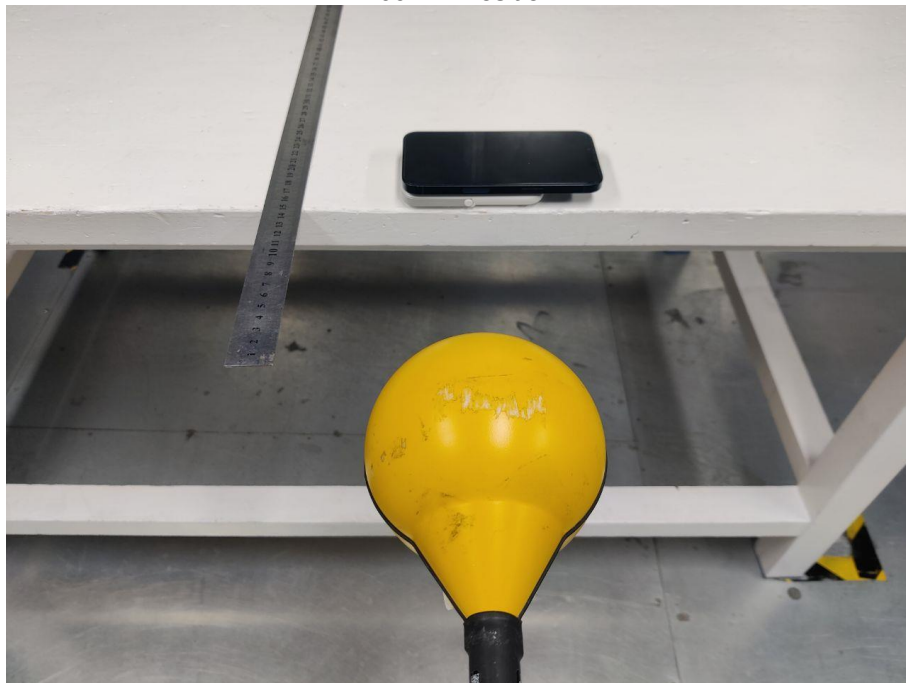
5cm B Position



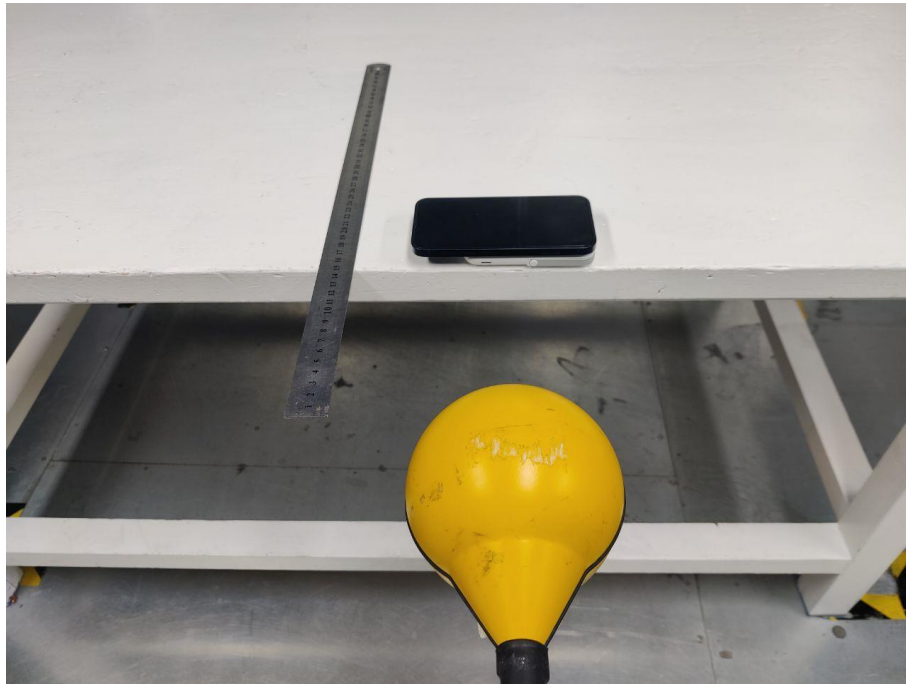
5cm F Position



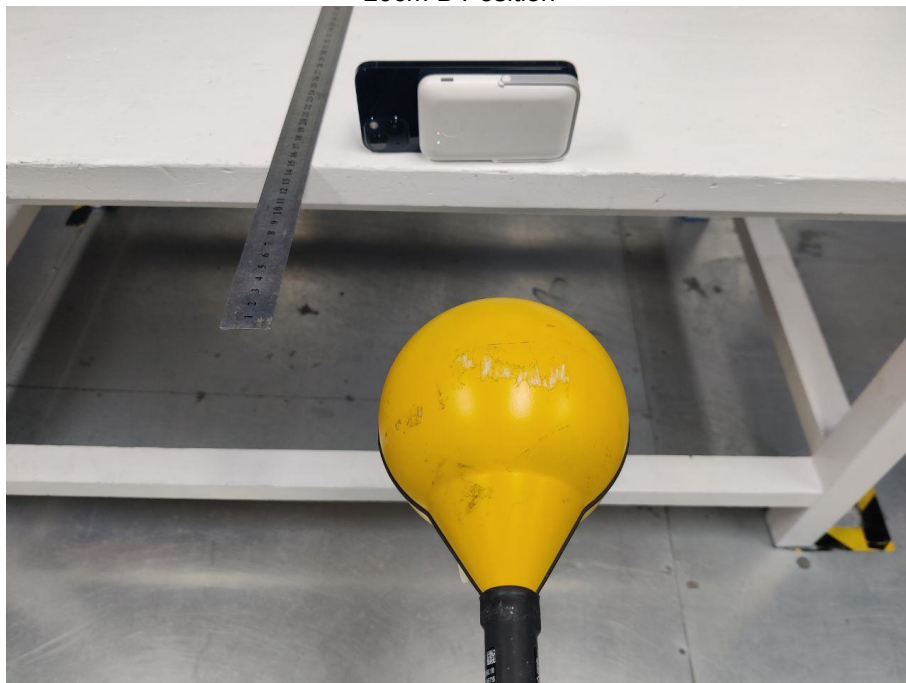
20cm E Position



20cm D Position



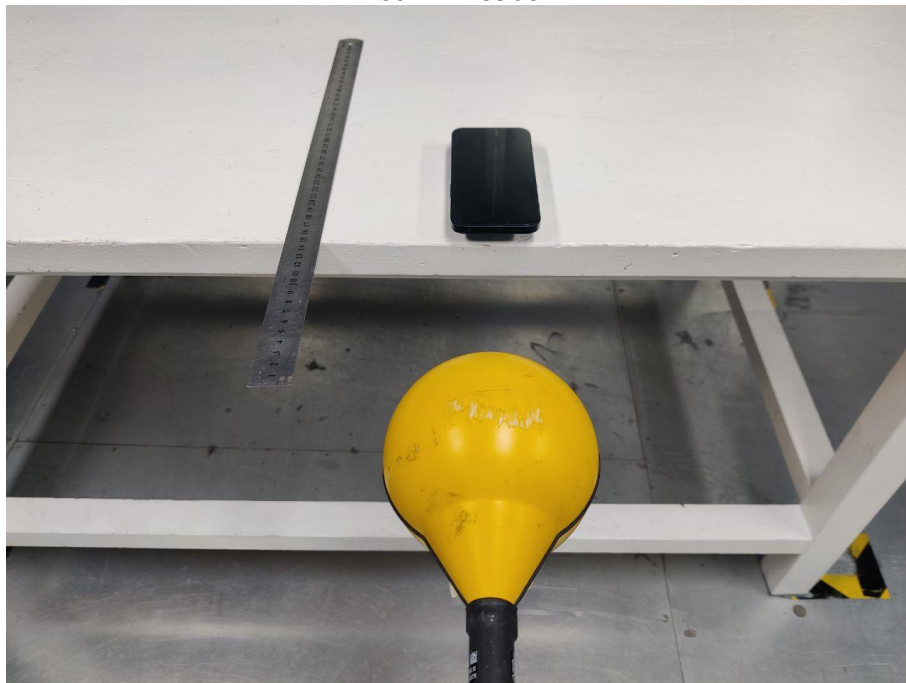
20cm B Position



20cm F Position



20cm A Position



20cm C Position

-----End-----