



FCC TEST REPORT

For

TireCheck GmbH

PocketTrigger

Test Model: 030617

Prepared for : TireCheck GmbH
Address : In den Stegwiesen 18, 89542 Herbrechtingen, Germany

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : July 01, 2026
Number of tested samples : 2
Sample No. : A260306076-1(Engineer sample), A260306076-2(Normal sample)
Date of Test : July 01, 2026 ~ August 06, 2026
Date of Report : August 07, 2026



**FCC TEST REPORT**
KDB 680106 D01 Wireless Power Transfer v04**Report Reference No.** : **LCSA07016083ED****Date of Issue**..... : August 07, 2026**Testing Laboratory Name**..... : **Shenzhen LCS Compliance Testing Laboratory Ltd.****Address**..... : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street,
Baoan District, Shenzhen, China**Testing Location/ Procedure**..... : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □**Applicant's Name**..... : **TireCheck GmbH****Address**..... : In den Stegwiesen 18, 89542 Herbrechtingen, Germany**Test Specification****Standard**..... : FCC CFR 47 PART 1, § 1.1310
KDB 680106 D01 Wireless Power Transfer v04**TRF Originator**..... : Shenzhen LCS Compliance Testing Laboratory Ltd.**Master TRF**..... : Dated 2023-12**Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved.**

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EUT Description..... : **PocketTrigger****Trade Mark**..... : N/A**Test Model**..... : 030617**Ratings**..... : Please Refer to Page 6**Result** : **PASS****Compiled by:**

Martin Lee/ Administrator

Supervised by:

Kevin Huang/ RF Manager

Approved by:

Gavin Liang/ Manager

**ISED -- TEST REPORT**

Test Report No. :	LCSA07016083ED	<u>August 07, 2026</u> Date of issue
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Test Model..... : 030617

EUT..... : PocketTrigger

Applicant..... : TireCheck GmbH

Address..... : In den Stegwiesen 18, 89542 Herbrechtingen, Germany

Telephone..... : /

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Manufacturer..... : TireCheck GmbH

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Factory..... : Async Technologies ltdAddress..... : Unit 7, Gort Rd. Industrial Estate, Gort Road, Ennis, Co.
Clare, V95 X4RP, Ireland

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Fax..... : /

Test Result	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



Revision History

Revision	Issue Date	Revisions	Revised By
000	August 07, 2026	Initial Issue	--



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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	: PocketTrigger
Test Model	: 030617
Ratings	: Input: 5V $\overline{\text{---}}$ 0.2A 1.0W Battery: DC 3.7V $\overline{\text{---}}$ 1000mA
Hardware Version	: /
Software Version	: /
Bluetooth	:
Frequency Range	: 2402MHz~2480MHz
Channel Number	: 40 channels for Bluetooth V5.3 (DTS)
Channel Spacing	: 2MHz for Bluetooth V5.3 (DTS)
Modulation Type	: GFSK for Bluetooth V5.3 (DTS)
Bluetooth Version	: V5.3
Antenna Description	: SMD Antenna, 1.5dBi(Max.)
SRD	:
Operating Frequency	: 125.0KHz
Modulation Type	: OOK
Antenna Description	: THT Small emitter antenna

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.

1.2. Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
ShenZhen HuaJin Electronics CO., LTD	Adapter	HJ-0502000W2-EU	--	FCC

Note: Auxiliary equipment is provided by the laboratory.

1.3 External I/O Cable

I/O Port Description	Quantity	Cable
Type-C Port	1	N/A

1.4. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.



1.5. Test Equipment

Equipment	Manufacturer	Model	Serial no.	Calibrated date	Calibrated Due
Exposure Level Tester	Narda	ELT-400	N-0713	2025-11-10	2026-11-09
B-Field Probe	Narda	100cm ²	M-1154	2025-09-27	2026-09-26

Exposure Level Tester ELT-400 detailed parameters are as follows:

Common parameter	
Operating temperature	-10 °C ~ +50 °C
Operation humidity	< 95 % (30 °C) or < 29 g/m ³
Weight	910 g
Size	180 mm x 100 mm x 55 mm(Main engine) / 290 mm x 125 mm Ø (Probe)
Display	LCD backlit display, 4 refresh rates per second
Battery	Nimh battery (4 x Mignon, AA), rechargeable
Operating time, typical	12 h
Power supply	100 ~240 V AC / 47 ~ 63 Hz
Charging time, typical	2 hours
Recommended calibration cycle	24 months
Country of origin	Germany

1.6. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Field Strength Uncertainty	1Hz~400KHz	1%	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.7. Description of Test Modes

Equipment under test was operated during the measurement under the following conditions:

☒ Charging and communication mode

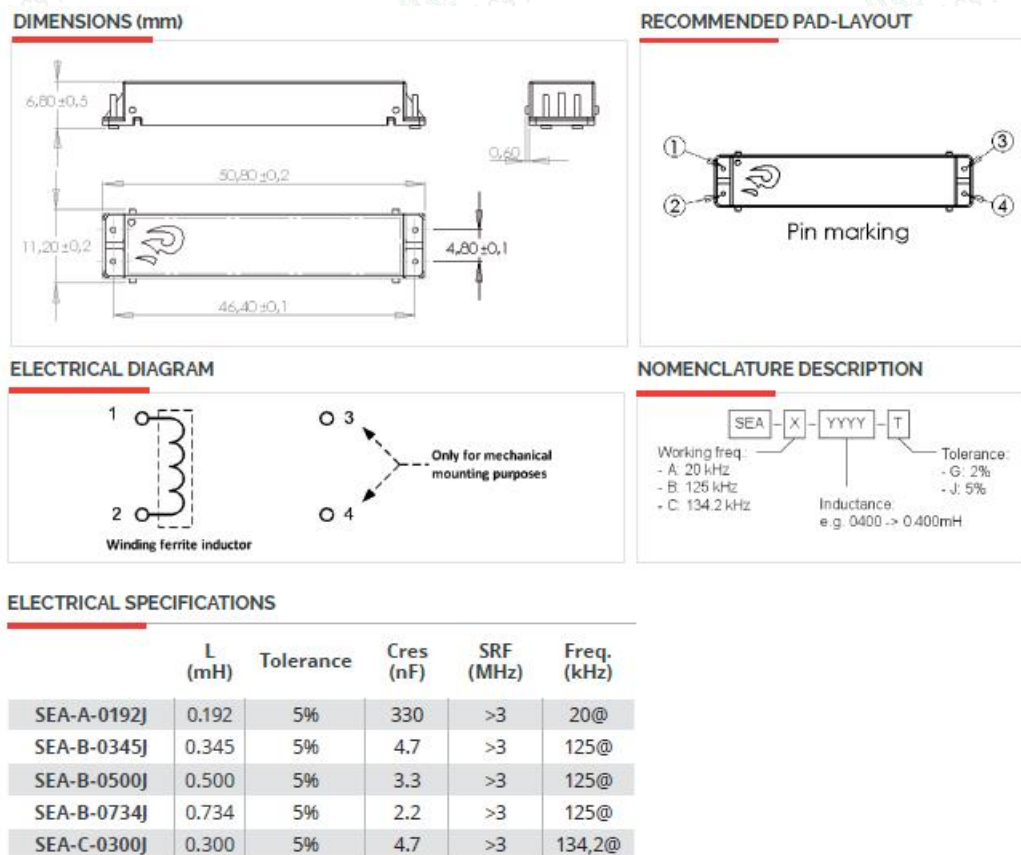
Test Modes		
Mode 1	AC/DC Adapter (5V/1A) + EUT (Battery Status: <1%)	Record
Mode 2	AC/DC Adapter (5V/1A) + EUT (Battery Status: <50%)	Record
Mode 3	AC/DC Adapter (5V/1A) + EUT (Battery Status: 100%)	Record
Note: All test modes were pre-tested for ac and dc mode, but we only recorded the worst case in this report for ac mode.		



1.8. Coil Description

Config.	Mode	Descriptions
1	Standby (Flatbed Position) @125kHz	EUT Alone powered by AC/DC adapter
2	Operating (Flatbed Position) @125kHz, ~10%, 20~50%, and >75%	EUT with lightning to AC/DC Adapter. 5W: Direct Contact 5W: 2mm Airgap, 2mm Shift Top as Worst-Case Position

1.9. Coil Size



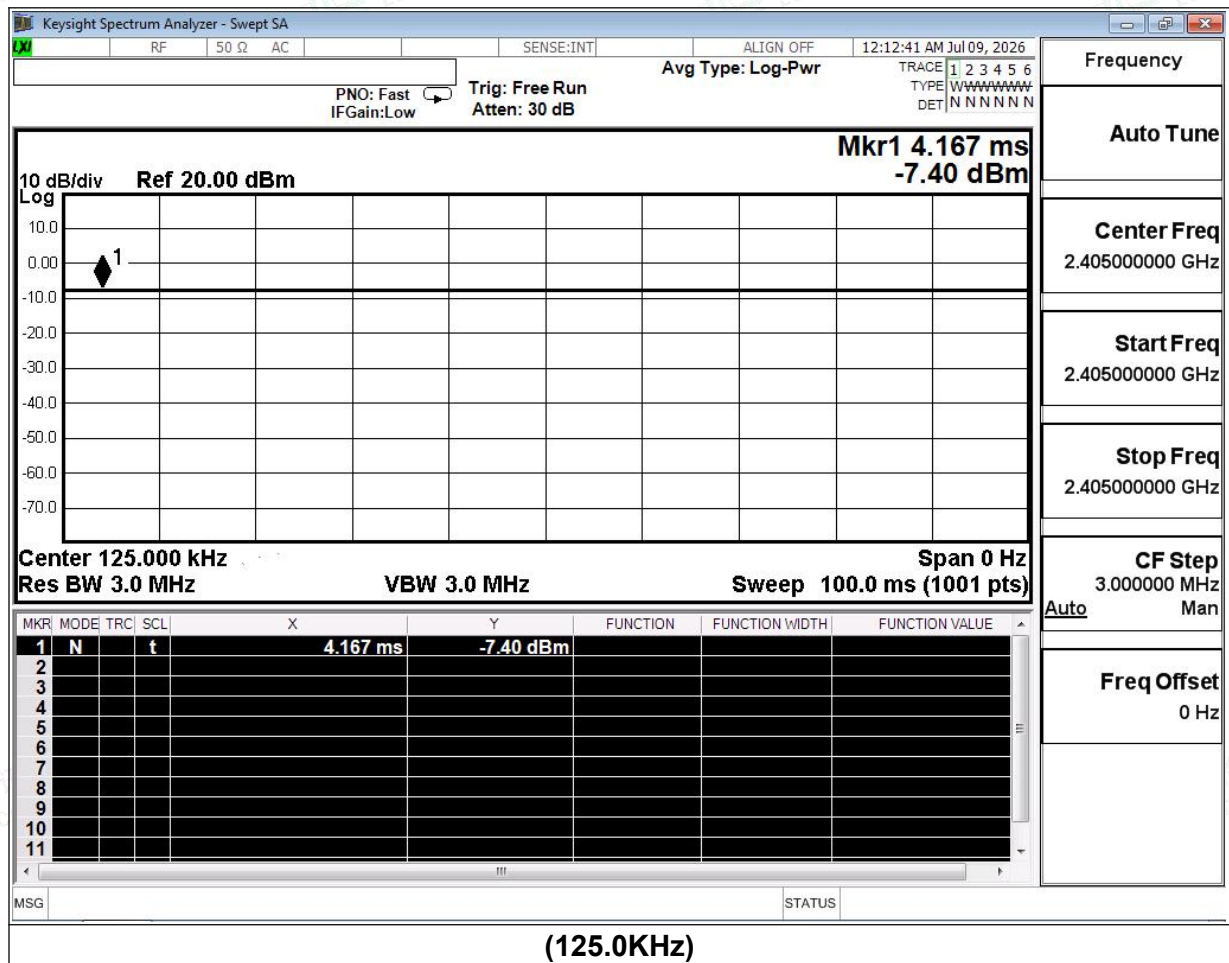
1.10. Coil Specifications

Item	Parameter
Input inductance:	Transmitter 1: 6.5 $\mu\text{H} \pm 10\%$
Material of enclosure(s):	Multiple strands of enamelled wire
Number of turns:	Transmitter 1: 10 turns



1.11. Duty Cycle

Mode	ON Time (ms)	Period (ms)	Duty Cycle (%)
Operating (125.0KHz)	/	/	100



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2. TEST METHODOLOGY

2.1. Reference Evaluation Method

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

FCC KDB publication 680106 D01 RF Exposure Wireless Charging Apps v04: RF Exposure Considerations for Low Power Consumer Wireless Power Transfer Applications

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1093: Radiofrequency radiation exposure evaluation: portable devices

April 2024 TCBC Workshop: Part 18 Wireless Power Transfer Devices: Clarifications on KDB 680106v04 and ECR Processes

2.2. Limit

§1.1310: 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), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter.

Table 1 to §1.1310(e)(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)
(i) 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
300-1500	/	/	f/300	<6
1500-100000	/	/	5	<6
(ii) 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	/	/	1.0	<30

f = frequency in MHz

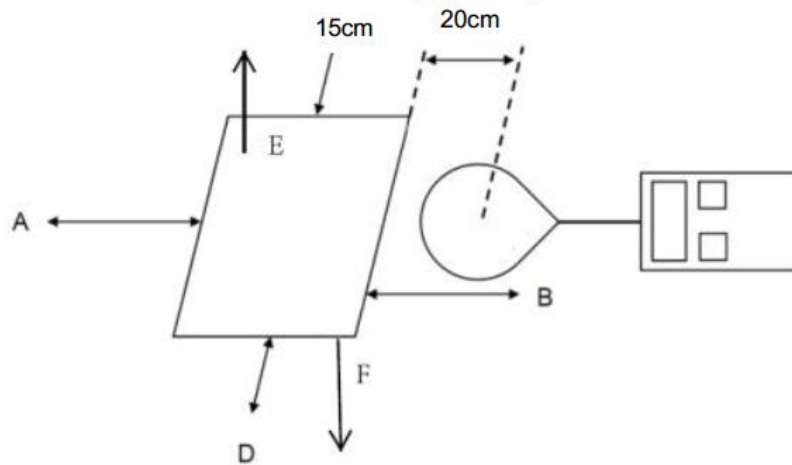
* = Plane-wave equivalent power density

Note 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

Note 2: General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

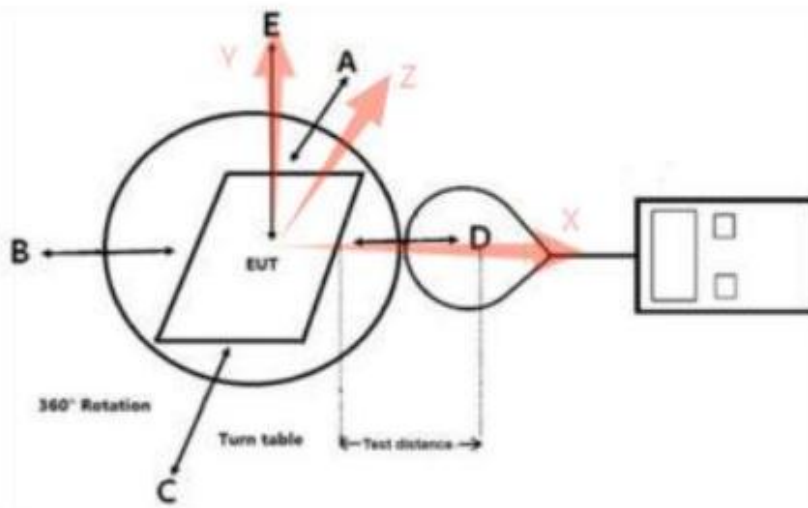
2.3. Test Setup Diagram

Mobile Exposure Conditions



Note: The distance of the points A/B/C/D is 15cm, and the point E is 20cm.

Portable Exposure Conditions:



Note: The distance of the points A/B/C/D/E/F is 0,2,4,6,8,10,12,14,16,18, 20cm.

The values tested by the probe are X, Y, and Z on three axes perpendicular to the edge of the device. Top and bottom side coincident with the axis(Y) of the main coil.

2.4. Measurement Procedure

Mobile Exposure Conditions

- The RF exposure test was performed in anechoic chamber.
- E and H-field measurements should be made with the center of the probe at 15 cm surrounding the EUT and 20 cm above the top surface of the primary/client pair.
- The highest emission level was recorded and compared with limit.
- The EUT was measured according to the KDB 680106 D01 Wireless Power Transfer v04.

Portable Exposure Conditions

- The RF exposure test was performed in anechoic chamber.
- Perform H-field measurements for each edge/top surface of the host/client pair at every 2 cm, starting



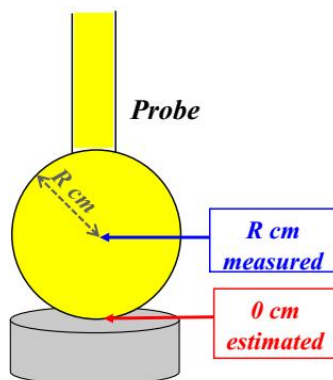
from as close as possible out to 20 cm

- c. The highest emission level was recorded and compared with limit.
- d. The EUT was measured according to the KDB 680106 D01 Wireless Power Transfer v04.

3. TEST RESULTS

For portable exposure condition

- (1) The portable test modes have covered the considerations of the mobile test, only record the test data of the portable conditions in this report.
- (2) Operating modes with client device (1 %, 50%, 99% battery status of client device) have been test, only show the data of worst case of 1% battery status of client device.
- (3) Test performed with all the radiating structures operating at maximum power at the same time.
- (4) H-field measurements are taken along all three axes the device from 0cm~20cm in 2cm minimum increment for each edge surface of the host/client pair. If the center of the probe sensing element is more than 5mm from the probe outer edge, the field strengths need to be estimated for the positions that are not reachable.
- (5) Validation of Field Estimates
 - (a) If R is the probe radius and the probe tip is in contact with the coil, then the probe center is R cm from the coil surface as bellowing picture

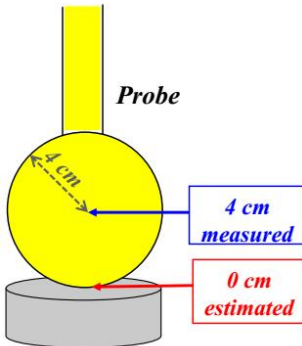


- (b) The probe then is measuring the field correctly at R cm from the surface, and only estimating the field at the 0 cm point of contact with the coil surface.
 - (c) The validation requires showing that the model used to estimate the field provides data within 30% accuracy for at least the two, 2-cm-spaced closest points to where the estimates were made.
 - (d) If there is only one estimated value, then a single validation point is sufficient.
 - (e) Validation Example for 4 cm Probe Radius as following
 - Step 1



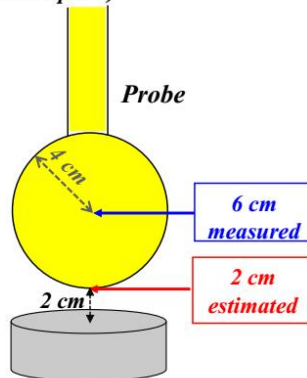
Validation Example for 4 cm Probe Radius

1. Measure the field at 4 cm (closest position)

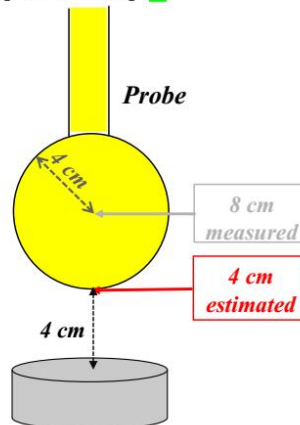


Step 2

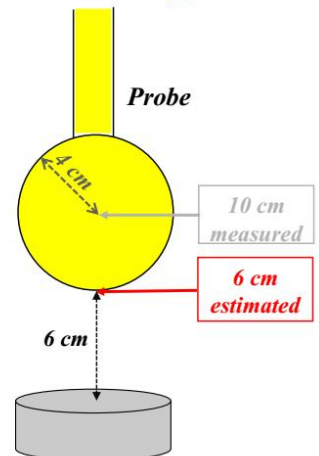
2. Position the probe 2 cm from the DUT. Measure the field at 6 cm (probe calibration point)



3. Position the probe 4 cm from the DUT. Estimate the field at 4 cm. Compare with Step 1

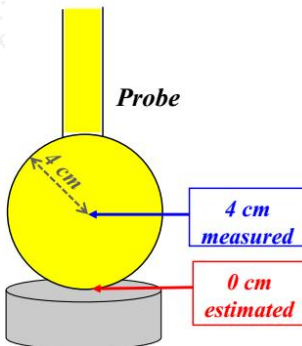


4. Position the probe 6 cm from the DUT. Estimate the field at 6 cm. Compare with Step 2



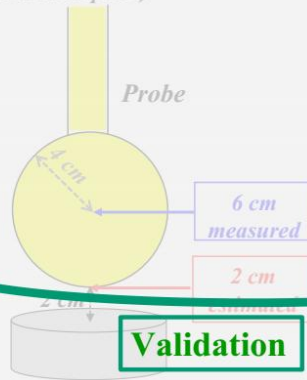
Validation Example for 4 cm Probe Radius

1. Measure the field at 4 cm (closest position)

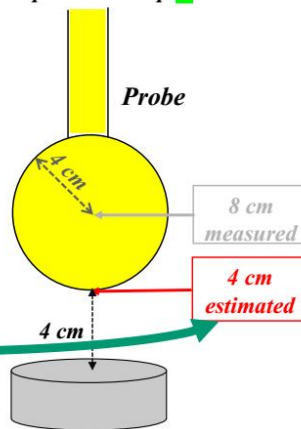


Step 3

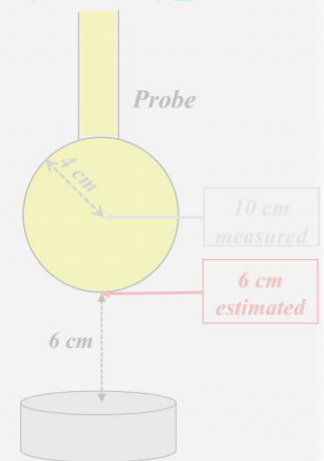
2. Position the probe 2 cm from the DUT. Measure the field at 6 cm (probe calibration point)



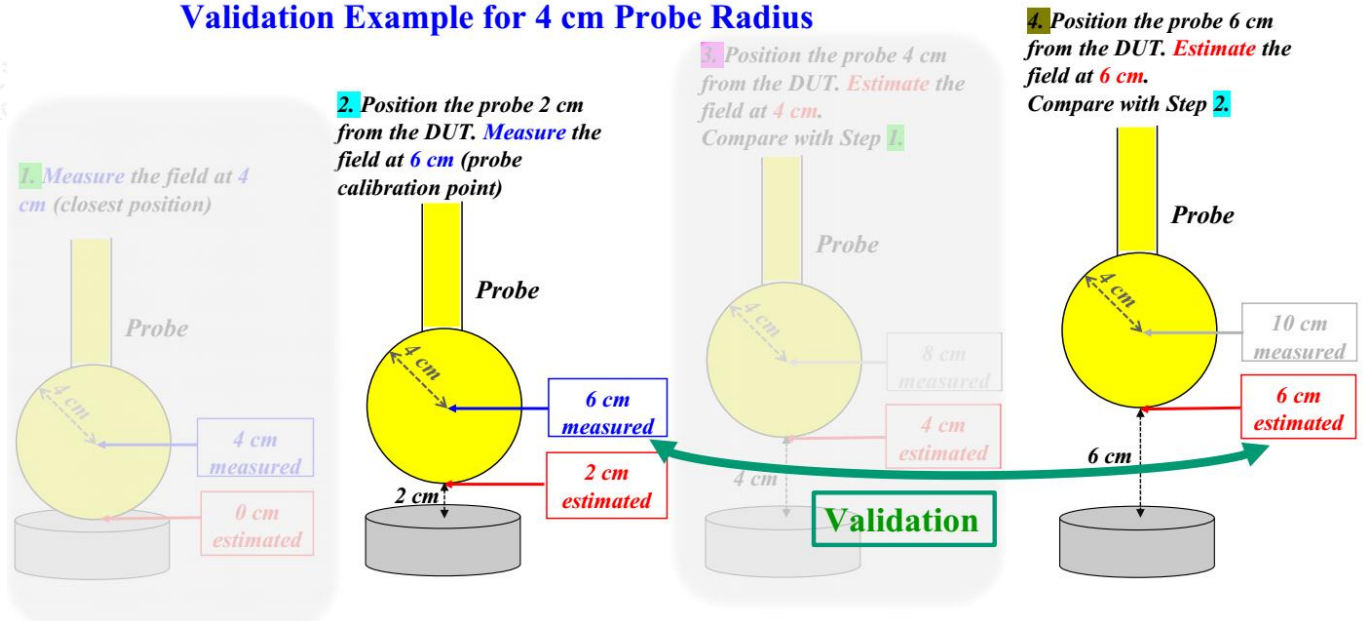
3. Position the probe 4 cm from the DUT. Estimate the field at 4 cm. Compare with Step 1



4. Position the probe 6 cm from the DUT. Estimate the field at 6 cm. Compare with Step 2



Validation Example for 4 cm Probe Radius



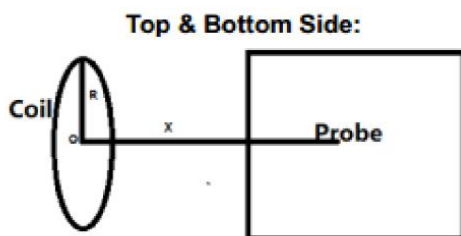
Description of the Validation Example for 4 cm Probe Radius

- Assume that $R=4$ cm. The field at 0 cm can only be estimated, but the field at 4 cm is measured exactly (at the center of the probe).
- Move the probe at 2 cm from the surface. The field at 2 cm can still only be estimated, but the field at 6 cm is measured exactly.
- Compare the estimates with the values at the same positions where the field was measured exactly (i.e., 4 cm and 6 cm)
- The difference between measurements and estimates needs to be no more than 30%.
- That validation of the estimates needs to be for the two closest points to the coil, but at least 2 cm apart (in this case they are). This is to avoid a validation at, say 2 cm and another one at 2.1 cm, that is essentially a repetition

(6) According to Calibration information and specification about ETL-400 Probe (the B-Field Probe size is 100cm^2 , the probe radius is 5.65cm), The Probe ETL-400 Probe's sensitive elements center is located in the probe's center, and the distance from the sensitive elements center to the tip of probe is 5.65cm.

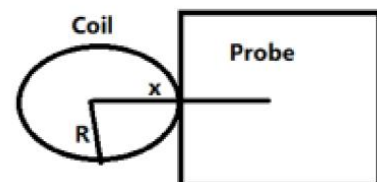
(7) The actual 0cm, 2cm, 4cm and 6cm field strengths need to be estimated for the positions that are not reachable via numerical calculation.

(8) Use Biot-Savart formula theory to estimate the strength of the magnetic field that the measuring instrument cannot measure. According to Biot-Savart formula:



$$B = \frac{\mu_0 * I * N * R^2}{2 * (R^2 + x^2)^{3/2}}$$

Front, left, right & rear Side:



$$B = \frac{\mu_0 * I * N}{2 * x}$$

B(Unit:A/m): means H-field value;

μ_0 is space permeability; $\mu_0=4\pi*10^{-7}$;

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I(Unit:A): A current element passing through a radiated coil;

R(Unit:m): means the Radius of radiated coil, according to provided Antenna specification:

R=0.0212m;

Test Distance(Unit:m): The distance from the sensing element of the probe to the edge of the device surface.

x(Unit:m): means the center of the coil to the sensing elements of the probe. (x=test distance+R)

N: Number of turns, according to providing "Antenna specification" files: N=10.

(9) For validation purposes: If the value to show a 30% agreement between the mode and the probe measurements for the two closest points to the device surface, and with 2cm increments. Then this extrapolation method is reasonable.

(10) Validation H-Field as bellowing;

Validation Mode: TM1 H-Field (A/m)			Validation Position: Top	
	Results	Difference Values	Difference Limit	Conclusion
Estimated Distance: 6.25 cm	0.6633	25.46%	≤ 30%	Compliance
Measured Distance: 6.25 cm	0.5287		≤ 30%	Compliance
Estimated Distance: 8.25 cm	0.5929	30.16%	≤ 30%	Compliance
Measured Distance: 8.25 cm	0.4555		≤ 30%	Compliance
Estimated Distance: 10.25 cm	0.6426	26.85%	≤ 30%	Compliance
Measured Distance: 10.25 cm	0.5066		≤ 30%	Compliance

Note 1: The compliance location as probe tip;

Note 2: The format of difference is;

Note 3: The test results are in $\mu\text{T/m}$. The above data was converted to A/m using the following formula.

$A/m = (\mu\text{T/m}) / 1.25$

The E Validation Difference = $(E_{\text{Estimated Distance}} - E_{\text{Measured Distance}}) / E_{\text{Measured Distance}} * 100\%$

H-Field Emission level with a combination of measured and estimated results.

Test condition: Mode 1

Distance(cm)	H-Field Result(A/m)							Limit(A/m)
	Type	Top	Bottom	Left	Right	Front	Back	
0	Estimate	0.5382	0.5278	0.4278	0.1634	0.2788	0.1781	1.63
2	Estimate	0.4512	0.2598	0.3167	0.3332	0.2678	0.2445	1.63
4	Estimate	0.4250	0.4770	0.3449	0.3848	0.2313	0.2660	1.63
6	Estimate	0.1272	0.3748	0.2451	0.2831	0.1008	0.2324	1.63
8	Measured	0.1336	0.0073	0.1190	0.0201	0.0900	0.0472	1.63
10	Measured	0.0020	0.2776	0.0444	0.0446	0.0183	0.0026	1.63
12	Measured	0.0783	0.0726	0.0032	0.0181	0.0392	0.0536	1.63
14	Measured	0.0758	0.0269	0.0903	0.0049	0.0144	0.0599	1.63
16	Measured	0.0376	0.0208	0.0610	0.0417	0.0881	0.0246	1.63
18	Measured	0.0102	0.0065	0.0746	0.0538	0.0084	0.0515	1.63
20	Measured	0.0341	0.0140	0.0571	0.0488	0.0130	0.0883	1.63



Distance(cm)	Electric field strength (V/m)							Limit(V/m)
	Type	Top	Bottom	Left	Right	Front	Back	
0	Estimate	194.67	187.21	201.45	198.11	206.56	205.26	614.0
2	Estimate	190.29	182.46	197.28	194.37	204.34	203.01	614.0
4	Estimate	185.57	178.31	193.63	190.54	200.65	199.45	614.0
6	Estimate	180.34	174.42	187.31	186.61	196.83	195.13	614.0
8	Measured	175.75	170.55	182.79	179.47	190.24	189.11	614.0
10	Measured	170.56	165.34	177.17	174.98	185.18	184.66	614.0
12	Measured	163.67	160.45	173.90	170.16	181.79	180.58	614.0
14	Measured	160.01	156.88	170.89	167.14	178.56	176.13	614.0
16	Measured	157.78	152.45	167.39	163.35	175.29	173.45	614.0
18	Measured	153.42	149.05	163.63	160.94	172.09	170.33	614.0
20	Measured	150.45	145.75	160.57	157.89	168.44	166.78	614.0

3.1 Conclusion

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

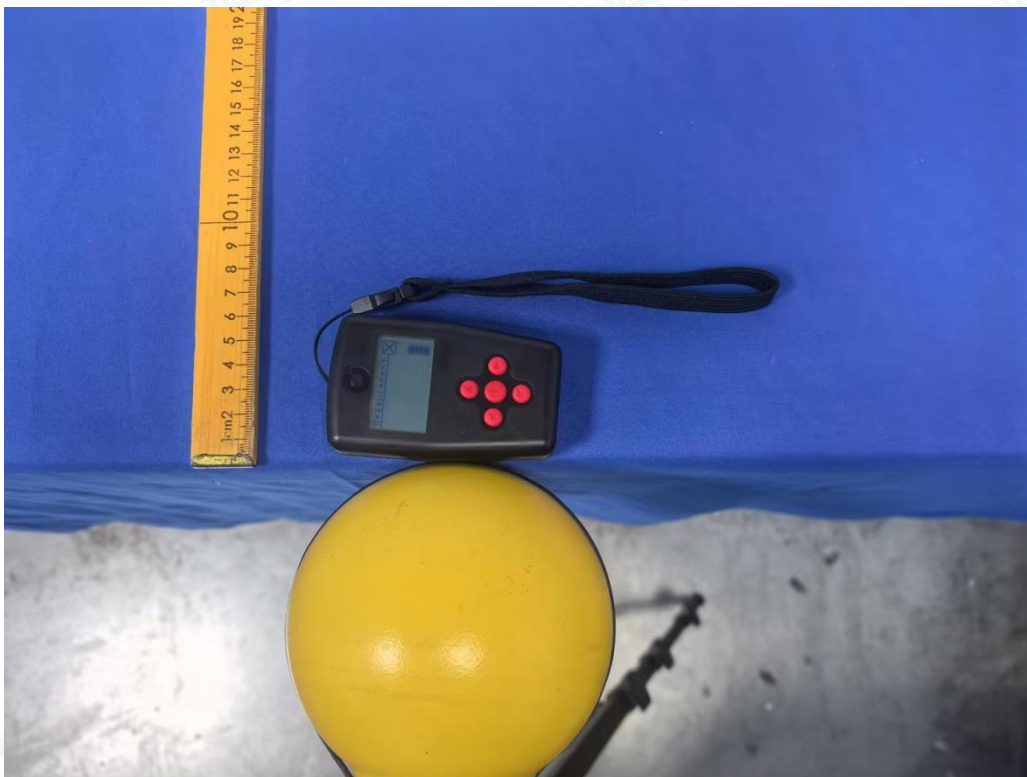


4. TEST SETUP PHOTOS

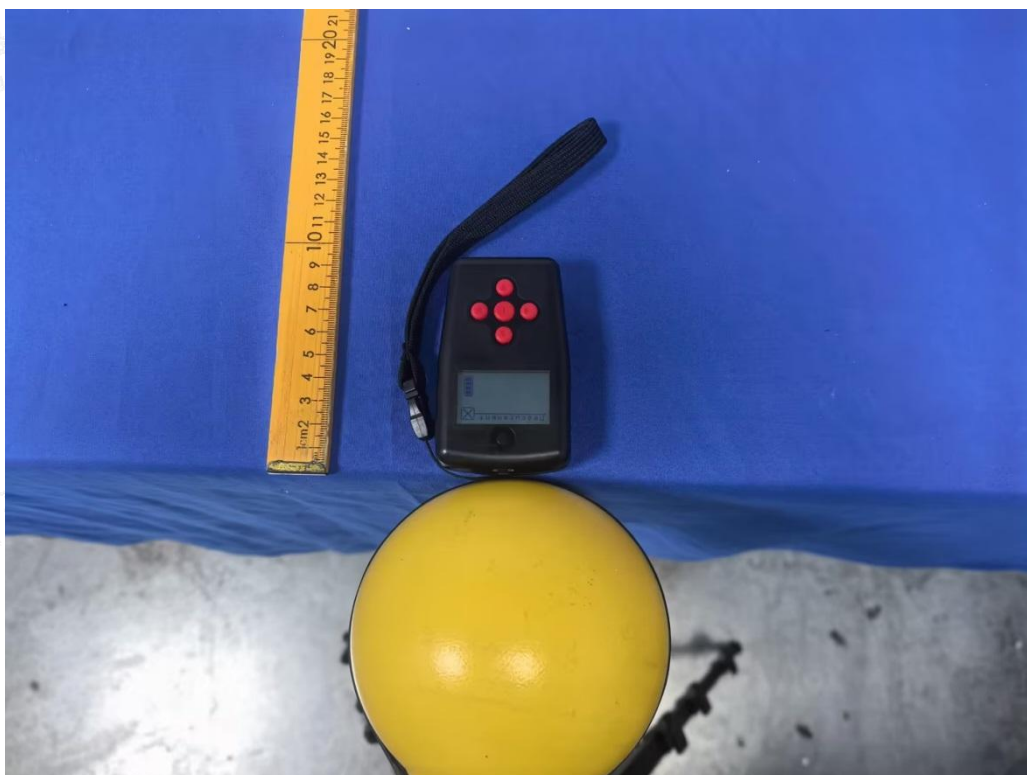
(The separation distance from the geometric center of the probe to the edge of the device is 6.25cm)



0cm-Left



0cm-Right



0cm-Top



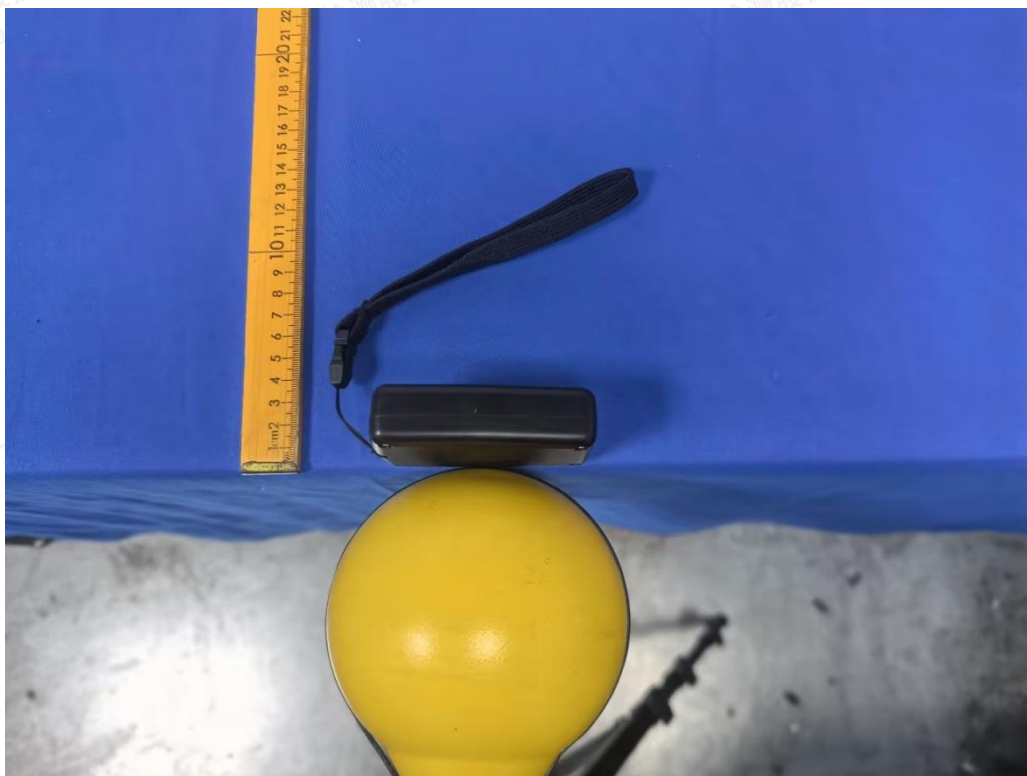
0cm-Bottom

TRF-4- E-145 A/0

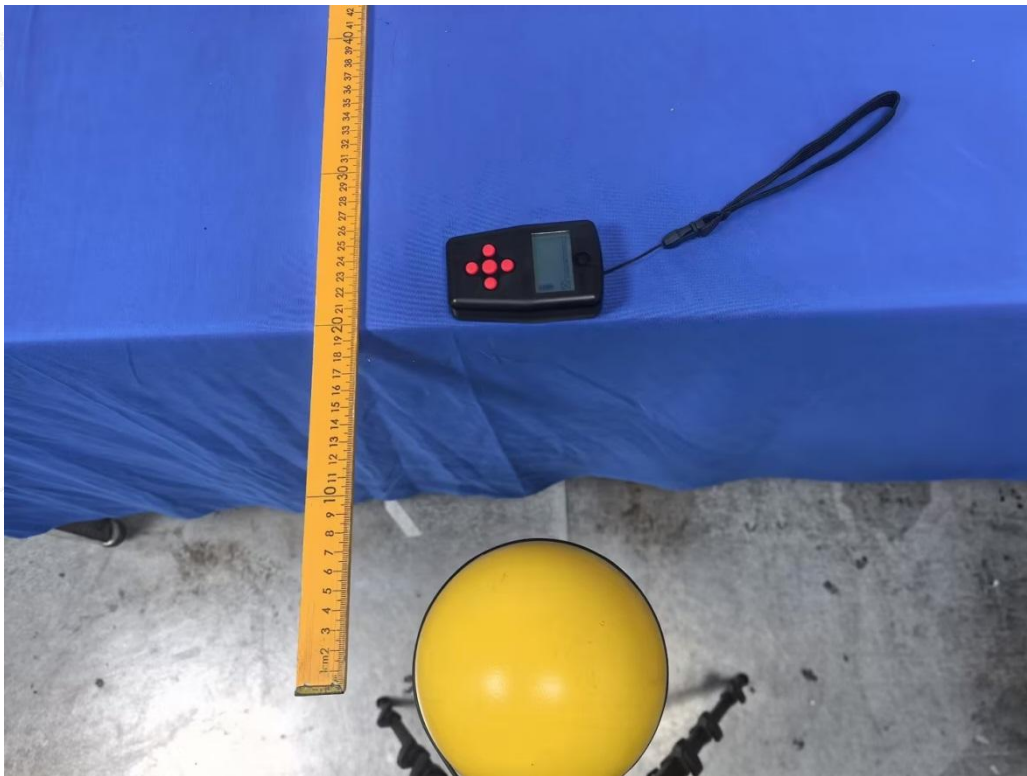
Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing
Subdistrict, Bao'an District, Shenzhen, Guangdong, China
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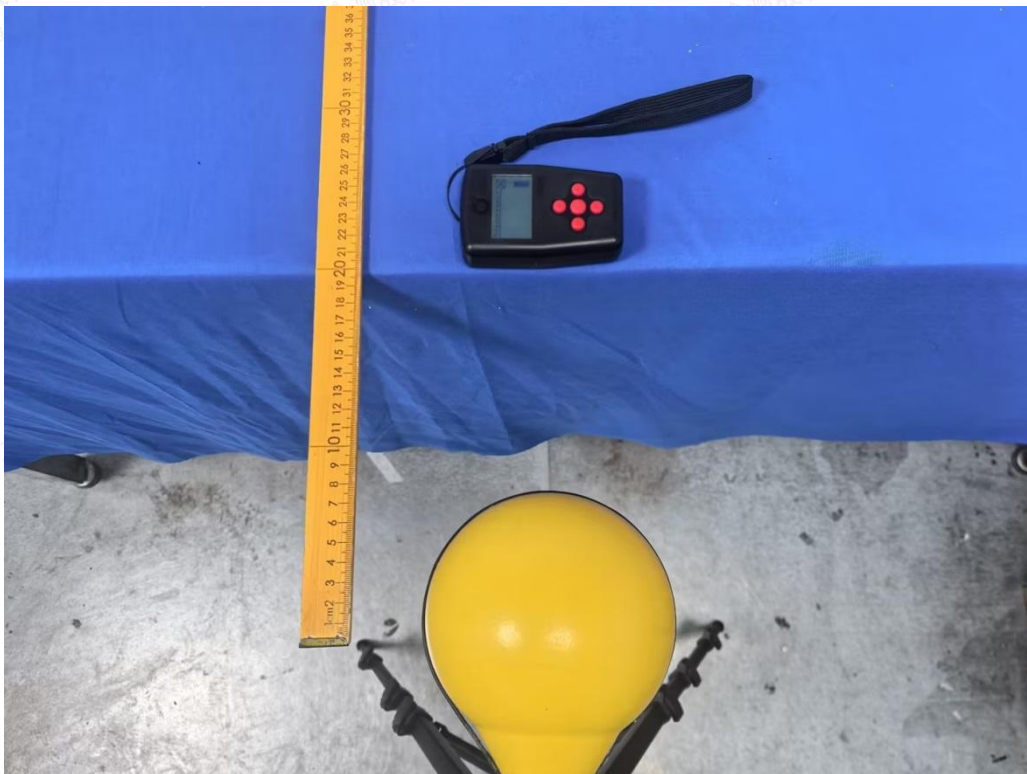
0cm-Front



0cm-Back



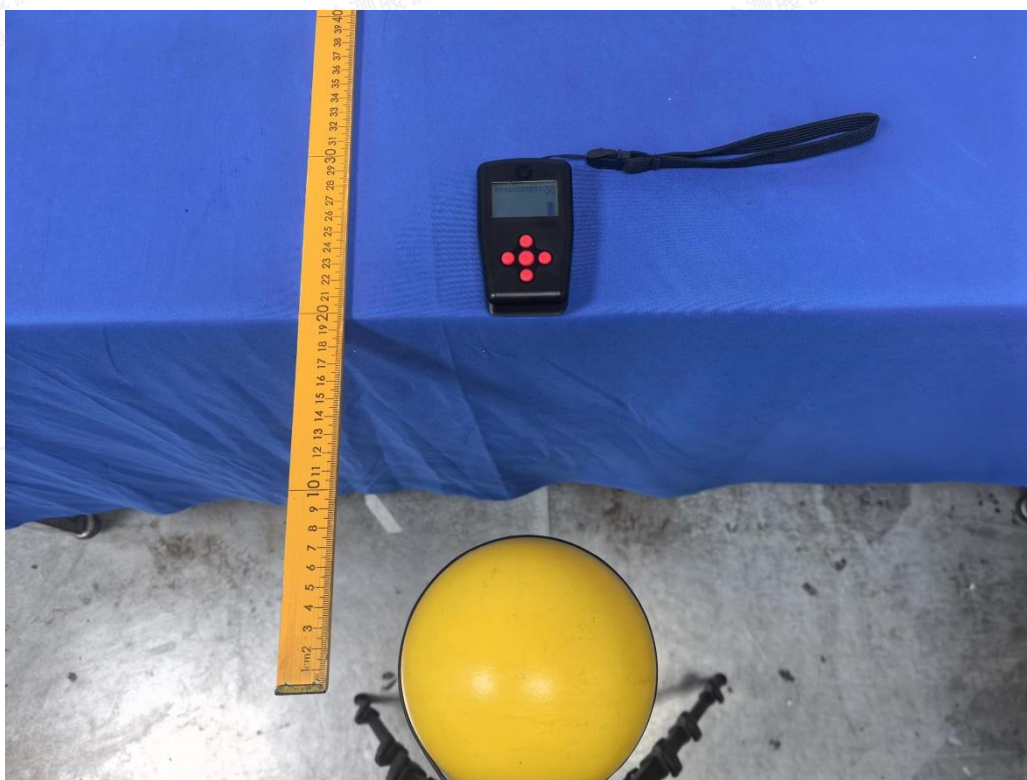
20cm-Left



20cm-Right



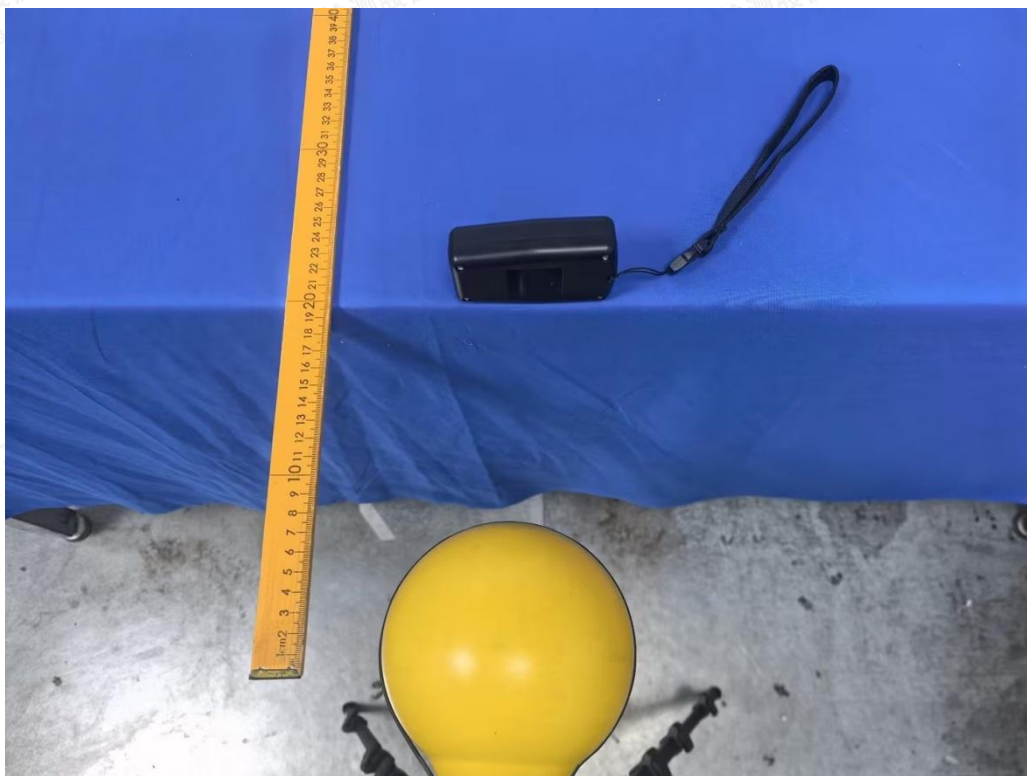
20cm-Top



20cm-Bottom



20cm-Front



20cm-Back

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