

SHENZHEN DNS INDUSTRIES CO., LTD

TEST REPORT

SCOPE OF WORK

SAR ASSESSMENT– PW47Y2A, 24998

REPORT NUMBER

180719025SZN-002

ISSUE DATE

11 AUGUST 2018

[REVISED DATE]

[-----]

PAGES

13

DOCUMENT CONTROL NUMBER

RF Exposure

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Test Report

Applicant: SHENZHEN DNS INDUSTRIES CO., LTD Number: 180719025SZN-002

23/F Building A, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian, Shenzhen, China. Date: 11 August 2018

Sample Description

Product : Wireless Charger Power Bank
Model No. : PW47Y2A, 24998

Brand Name : DNS, omars, mworks!
Electrical Rating : Input: DC5V, 2A; Output 1: DC5V, 1A; Output 2: DC5V, 2A; USB total output: DC5V, 2A; Wireless Output: DC5V, 1A(5W)

Date Received : 19 July 2018

Date Test Conducted : 19 July 2018 to 10 August 2018

Test Requested : Test for compliance with CFR 47 part 1

Test Method : Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(c) and (d), 1.1310

Test Result : Pass

Conclusion : When determining of test conclusion, measurement uncertainty of tests have been considered.

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Date: 11 August 2018

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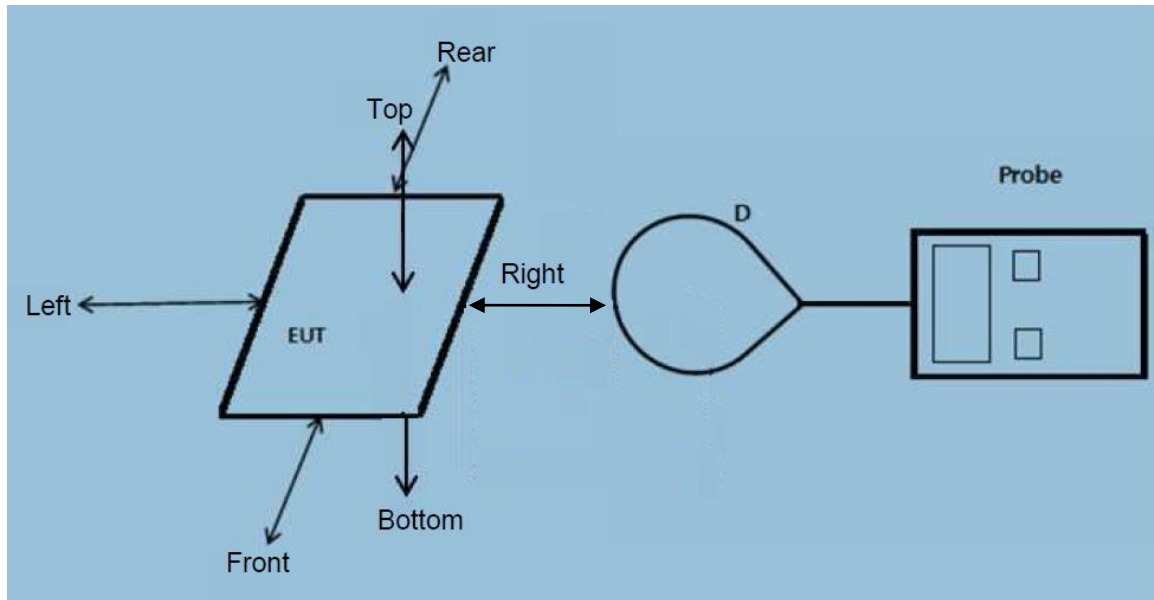
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Test Report

Test Setup Configuration



Note

- The RF exposure test is performed in the shield room.
- The test distance is between the edge of the charger and the geometric centre of probe.
- The Model: 24998 is the same as the Model: PW47Y2A in hardware aspect. The difference in model number and brand name serves as marketing strategy.

Test Equipment List

Name of instrument	Model	Manufacturer	Cal. Date	Due Date
Exposure Level Tester	ELT-4002304/03	Narda	21-Mar-18	21-Mar-19
Field Probe	HI-6105	ETS	21-Mar-18	21-Mar-19
Laser Data Interface	HI-6113	ETS	21-Mar-18	21-Mar-19

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Reference Limit:

Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(c) and (d), 1.1310

According to FCC 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.

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric field strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100)*	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3 – 1.34	614	1.63	(100)*	30

Note: * = Plane wave equivalent power density

Test Mode: Power transfer

Test Result:

H-Field Strength at 0 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
0.110-0.205	1% battery level	0.183	0.213	0.197	0.147	0.171	0.127	1.63
0.110-0.205	50% battery level	0.189	0.223	0.203	0.152	0.175	0.135	1.63
0.110-0.205	99% battery level	0.187	0.207	0.195	0.143	0.169	0.119	1.63

H-Field Strength at 5 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
0.110-0.205	1% battery level	0.169	0.193	0.176	0.121	0.143	0.107	1.63
0.110-0.205	50% battery level	0.172	0.182	0.173	0.126	0.145	0.095	1.63
0.110-0.205	99% battery level	0.178	0.189	0.181	0.135	0.136	0.091	1.63

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H-Field Strength at 10 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
0.110-0.205	1% battery level	0.137	0.179	0.148	0.107	0.124	0.089	1.63
0.110-0.205	50% battery level	0.131	0.151	0.139	0.102	0.121	0.091	1.63
0.110-0.205	99% battery level	0.135	0.158	0.137	0.108	0.132	0.083	1.63

H-Field Strength at 15 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
0.110-0.205	1% battery level	0.119	0.168	0.129	0.098	0.104	0.063	1.63
0.110-0.205	50% battery level	0.101	0.134	0.120	0.089	0.118	0.068	1.63
0.110-0.205	99% battery level	0.108	0.133	0.104	0.081	0.097	0.057	1.63

E-Field Strength at 0 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (V/m)	Limits (V/m)
0.110-0.205	1% battery level	1.059	1.093	1.137	1.032	1.107	0.897	614
0.110-0.205	50% battery level	1.087	1.116	1.129	1.043	1.091	0.882	614
0.110-0.205	99% battery level	1.066	1.102	1.116	1.061	1.085	0.877	614

E-Field Strength at 5 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (V/m)	Limits (V/m)
0.110-0.205	1% battery level	0.991	1.049	1.058	0.997	1.037	0.769	614
0.110-0.205	50% battery level	1.034	1.057	1.072	0.983	1.051	0.783	614
0.110-0.205	99% battery level	1.021	1.041	1.053	0.987	1.022	0.761	614

E-Field Strength at 10 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (V/m)	Limits (V/m)
0.110-0.205	1% battery level	0.872	0.905	0.931	0.825	0.927	0.621	614
0.110-0.205	50% battery level	0.859	0.889	0.922	0.832	0.901	0.632	614
0.110-0.205	99% battery level	0.903	0.895	0.907	0.838	0.917	0.609	614

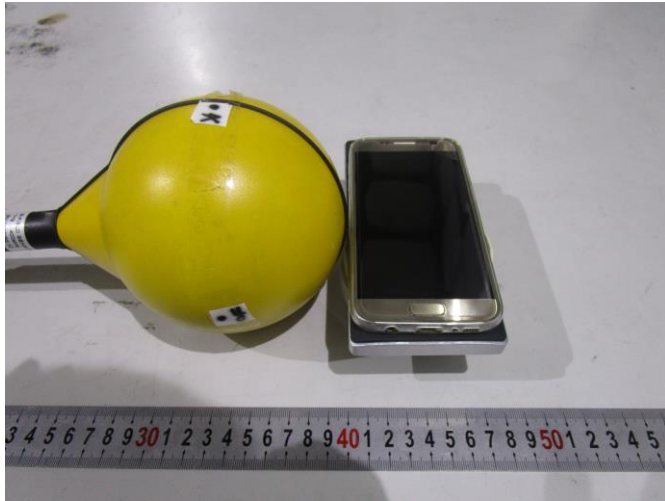
E-Field Strength at 15 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (V/m)	Limits (V/m)
0.110-0.205	1% battery level	0.774	0.897	0.815	0.765	0.850	0.453	614
0.110-0.205	50% battery level	0.710	0.865	0.802	0.732	0.834	0.441	614
0.110-0.205	99% battery level	0.714	0.859	0.782	0.715	0.830	0.429	614

Configuration photo of the test:

H-Field Strength at 0 cm surrounding the EUT

Probe Position Front



Probe Position Rear



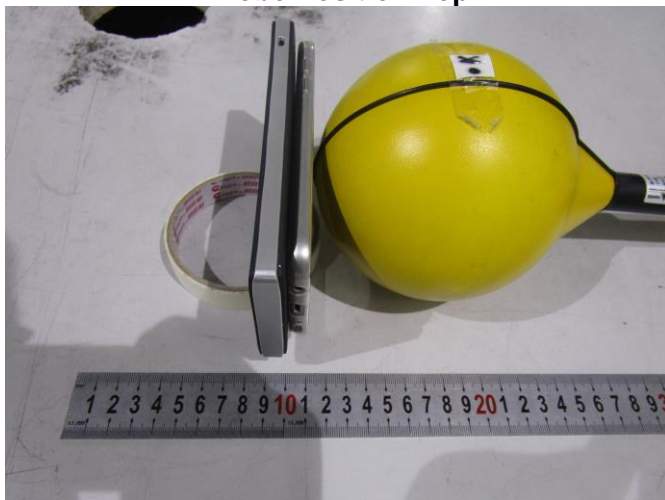
Probe Position Left



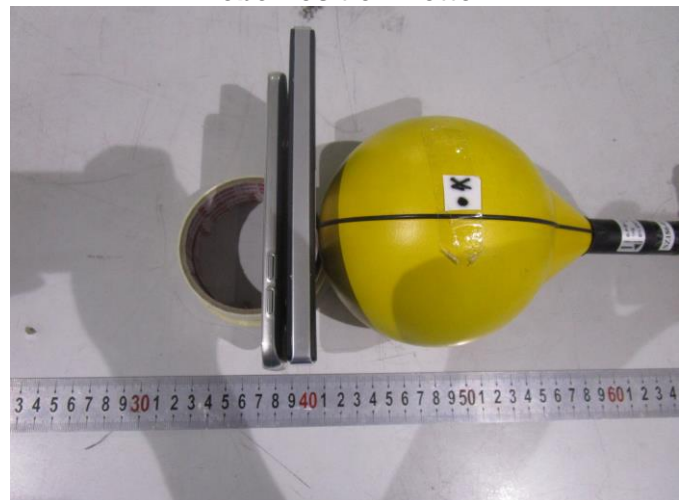
Probe Position Right



Probe Position Top



Probe Position Bottom



H-Field Strength at 5 cm surrounding the EUT

Probe Position Front



Probe Position Rear



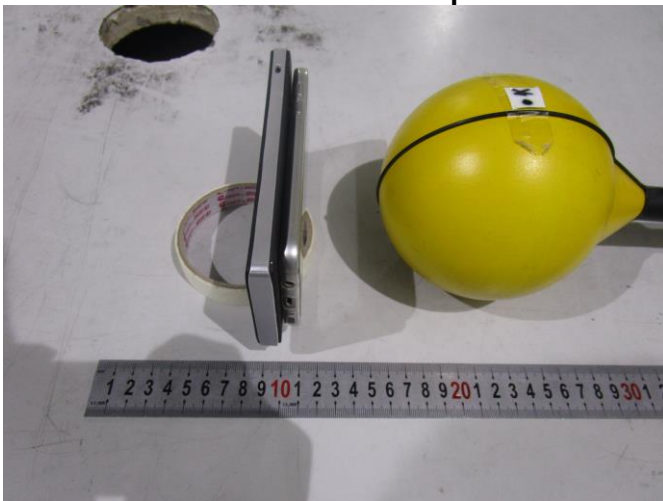
Probe Position Left



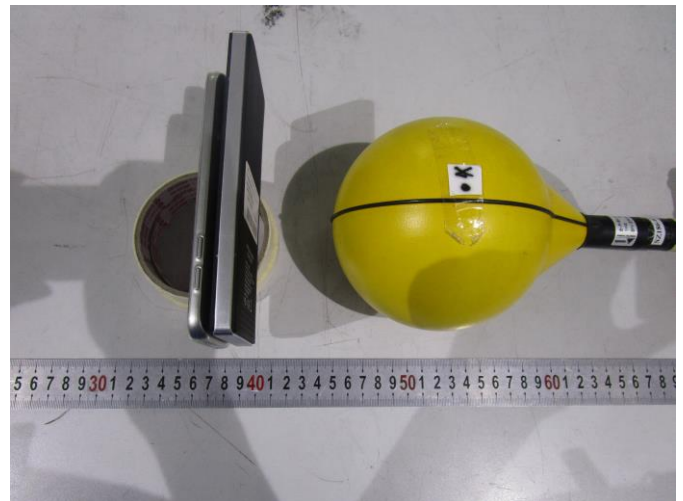
Probe Position Right



Probe Position Top



Probe Position Bottom



H-Field Strength at 10 cm surrounding the EUT

Probe Position Front



Probe Position Rear



Probe Position Left



Probe Position Right



Probe Position Top

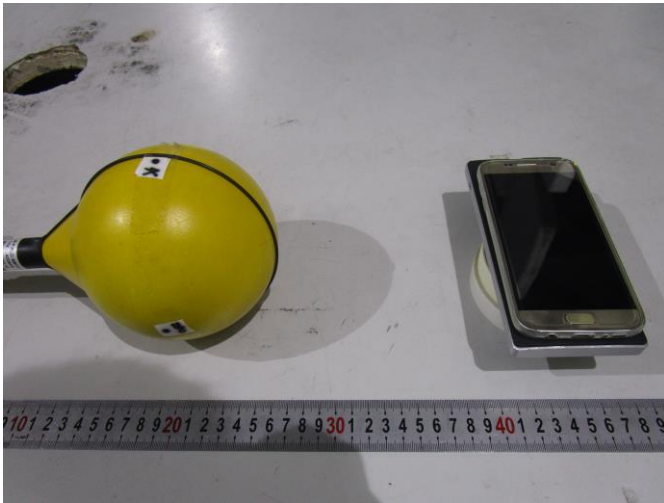


Probe Position Bottom

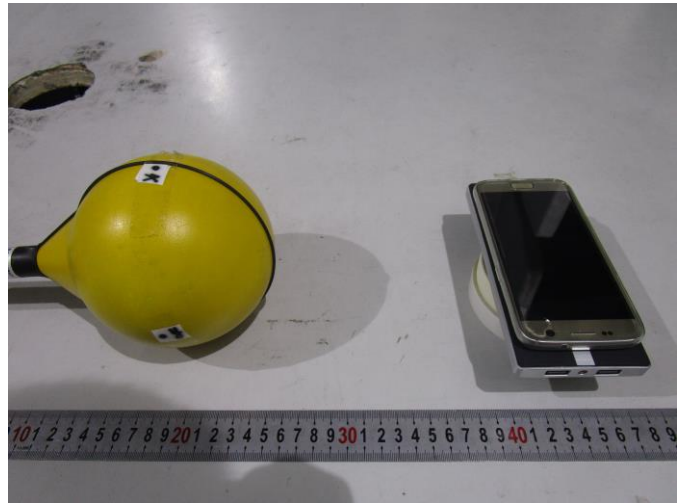


H-Field Strength at 15 cm surrounding the EUT

Probe Position Front



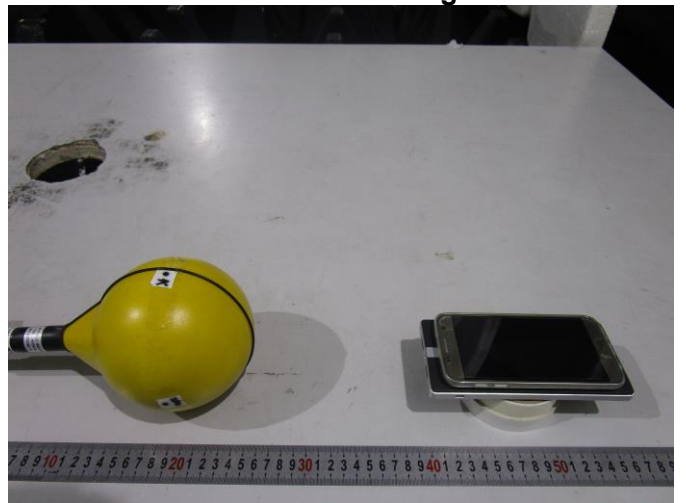
Probe Position Rear



Probe Position Left



Probe Position Right



Probe Position Top



Probe Position Bottom



E-Field Strength at 0 cm surrounding the EUT

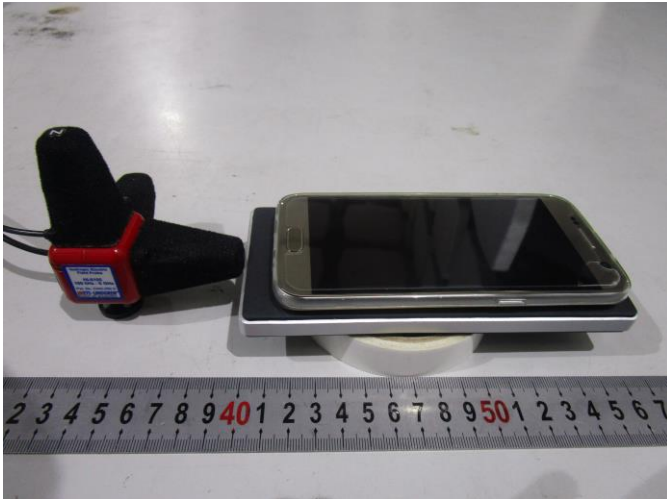
Probe Position Front



Probe Position Rear



Probe Position Left



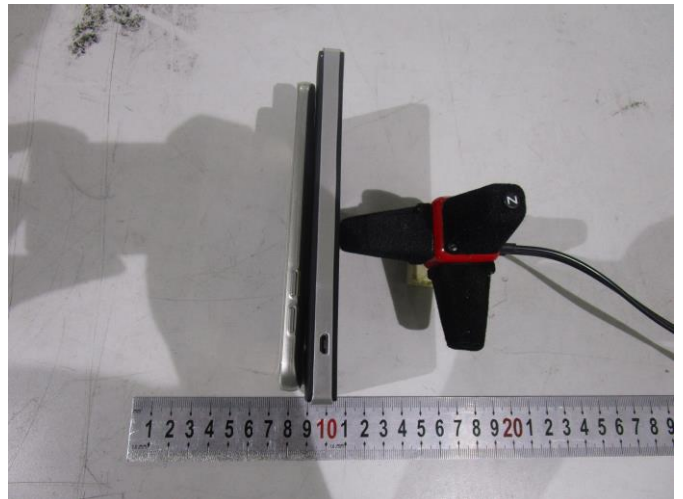
Probe Position Right



Probe Position Top



Probe Position Bottom



E-Field Strength at 5 cm surrounding the EUT

Probe Position Front



Probe Position Rear



Probe Position Left



Probe Position Right



Probe Position Top



Probe Position Bottom

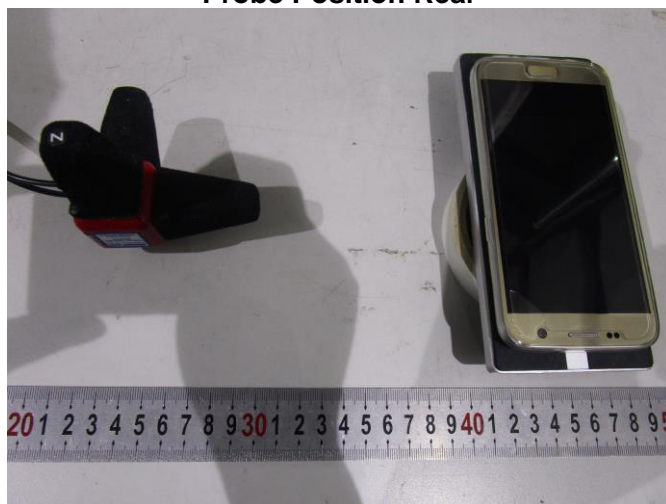


E-Field Strength at 10 cm surrounding the EUT

Probe Position Front



Probe Position Rear



Probe Position Left



Probe Position Right



Probe Position Top



Probe Position Bottom



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E-Field Strength at 15 cm surrounding the EUT

Probe Position Front



Probe Position Rear



Probe Position Left



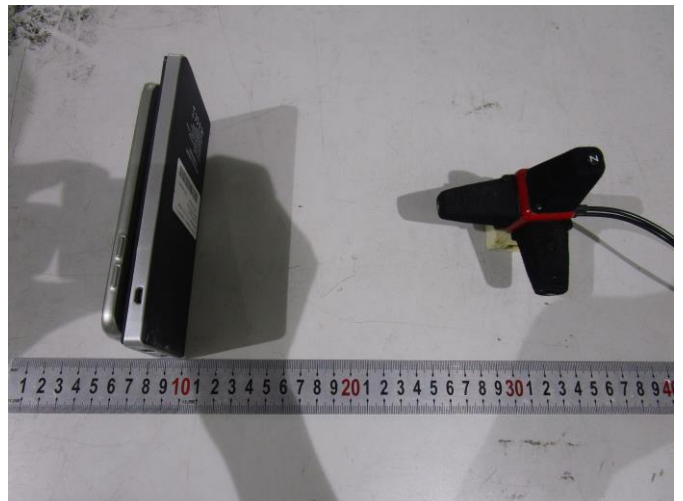
Probe Position Right



Probe Position Top



Probe Position Bottom



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