

EMC Test Report

Report No.: AGC04094181002EE01

PRODUCT DESIGNATION: Travel adapter wireless powerbank

BRAND NAME : N/A

MODEL NAME : P820.55

CLIENT : Xindao B.V.

DATE OF ISSUE : Dec.13, 2018

EN 55032:2015/AC:2016

STANDARD(S) : EN 61000-3-2:2014

EN 61000-3-3:2013

EN 55035:2017

REPORT VERSION: V1.0

Attestation of Global Compliance(Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	ued Date Valid Version Notes	
V1.0	illanco / © 5	Dec.13, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	Xindao B.V.						
Address	P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands						
Manufacturer	Xindao B.V.						
Address	P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands						
Factory	Xindao B.V.						
Address	P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands						
Product Designation	Travel adapter wireless powerbank						
Brand Name	N/A						
Test Model	P820.55						
Date of test	Dec.10, 2018 to Dec.12, 2018						
Deviation	None						
Condition of Test Sample	Normal State of the state of th						
Test Result	Pass						
Report Template	AGCRT-EC-IT/AC(2013-03-01)						

The above equipment was tested by Attestation of Global Compliance(Shenzhen) Co., Ltd. for compliance with the requirements set forth in the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements. The test results of this report relate only to the tested sample identified in this report.

Tested By	Frik Jong	
	Erik Yang(Yang Jianmin)	Dec.13, 2018
Reviewed By	Stone Thou	
	Stone Zhou(Zhou Dong)	Dec.13, 2018
Approved By	Formesto ce	
	Forrest Lei(Lei Yonggang) Authorized Officer	Dec.13, 2018

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2. SYSTEM DESCRIPTION

TEST MODE DESCRIPTION							
NO. TEST MODE DESCRIPTION WORS							
1 _{® 4}	Figure 1 Clopal Co.	Full load			V		
2	Atte	Half load	7 11 11 11 11 11 11 11 11 11 11 11 11 11	TK KE AMILION	- @ Francisco		

Note:

- 1. V means EMI worst mode.
- 2. Only the data of the worst mode would be recorded in this report.

3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by ISO.

- Uncertainty of Conducted Emission, Uc = ±3.2dB
- Uncertainty of Radiated Emission, Uc = ±3.9dB

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4. PRODUCT INFORMATION

, 46 ₂ ,		JEM, 100,	100-	
Housing Type	Plastic and metal	® ## Jalion of Globa	® Managara of Global C	® #
EUT Input Rating	AC 100-240V, 50/60HZ	0	0 1	30
EUT Output Rating	USB Output: DC 5V 2.4A (total 4.8A) Wireless Output: DC 5V 1A			不怕

I/O Port Information (⊠Applicable ☐Not Applicable)

I/O Port of EUT							
I/O Port Type	Number	Cable Description	Tested With				
Type-C	Shart com	The S	1				
USB	GG 1	1	1, 311				

Note:

- 1. All the above "--" means that EUT has no cable.
- 2. All the cables were provided by AGC Lab.

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5. SUPPORT EQUIPMENT

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
Resistor	- ® ###	of Globa	-GO	-60	0.8m unshielded
Multimeter	VICTOR	VC9808			0.9m unshielded

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¹ All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.



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6. TEST FACILITY

Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.12, 2018	Jun.11, 2019
LISN	R&S	ESH2-Z5	100086	Aug.28, 2018	Aug.27, 2019

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.12, 2018	Jun.11, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2019

TEST EQUIPMENT OF POWER HARMONICS / VOLTAGE FLUCTUATION / FLICKER TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Signal Conditioning Unit	Schaffner	CCN1000-1	72431	Aug.28, 2018	Aug.27, 2019
AC Source	Schaffner	NSG1007	56825	Aug.28, 2018	Aug.27, 2019

TEST EQUIPMENT OF SURGE/EFT/DIPSTEST

Description	Manufactur er	Model	S/N	Cal. Date	Cal. Due
EFT、Surge Generator	Schaffner	Modula 6150	34437	Aug.28, 2018	Aug.27, 2019

TEST EQUIPMENT OF ESD TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
ESD Simulator	Schaffner	NSG 438	782	Oct.25, 2018	Oct.24, 2019

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TEST EQUIPMENT OF RS IMMUNITY TEST

Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
SIGNAL GENERATOR	R&S	E4421B	MY433516 03	May.15, 2018	May.14, 2019
ANTENNA	SCHWARZBCK	VULB9168	D69250	Aug.28, 2017	Aug.27, 2019
POWER SENSOR	R&S	URV5-Z4	100124	May.15, 2018	May.14, 2019
POWER METER	R&S	NRVD	832378102 7	May.15, 2018	May.14, 2019
POWER AMPLIFIER	KALMUS	7100LC	04-02/17-0 6-001	Jun.12, 2018	Jun.11, 2019
RF AMPLIFIER	Milmega	AS0104-55_ 55	1004793	Jun.12, 2018	Jun.11, 2019
HORN ANTENNA	ETS LINDGREN	3117	00034609	May.26, 2018	May.25, 2019
Power Amplifier	rflight	NTWPA-256 0100	17063183	Oct.18, 2018	Oct.17, 2019
Broadband High Gain Horn Antenna	SCHWARZBEC K	BBHA 9120 J	00073	Mar.19, 2018	Mar.18, 2019

TEST EQUIPMENT OF CS IMMUNITY TEST

Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Power Amplifier	AR	75A250	18464	Jun.12, 2018	Jun.11, 2019
CDN	ZHINAN	ZN3751	15004	Aug.28, 2018	Aug.27, 2019
6dB attenuator	JWF	50FHC-006- 50	N/A	Aug.28, 2018	Aug.27, 2019
Electromagnetic Injection Clamp	Luthi	EM101	35773	Aug.28, 2018	Aug.27,2019
Power Sensor	R&S	URV5-Z4	100124	May.15, 2018	May.14, 2019
Power Meter	R&S	NRVD	832378102 7	May.15, 2018	May.14, 2019
SIGNAL GENERATOR	R&S	E4421B	MY4335160 3	May.15, 2018	May.14, 2019

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7. TEST ITEMS AND THE RESULTS

Test item	Test Requirement	Test Method	Class/Severity	Result
CONDUCTED EMISSION	EN 55032	EN 55032	Class B	Pass
RADIATED EMISSION	EN 55032	EN 55032	Class B	Pass
Harmonic current emission	EN 61000-3-2	EN 61000-3-2	Class A	N/A
Voltage fluctuations & flicker	EN 61000-3-3	EN 61000-3-3	§5 of EN 61000-3-3	Pass
Electrostatic Discharge Immunity	EN 55035	EN 61000-4-2	± 8.0 kV (Air Discharge) ± 4.0 kV (Contact Discharge) ± 4.0 kV (Indirect Discharge)	Pass
Radiated RF Electromagnetic	EN 55035	EN 61000-4-3	3V/m with 80% AM. 1kHz Modulation.	Pass
Electrical fast transient/burst Immunity	EN 55035	EN 61000-4-4	+/- 1kV for Power Supply Lines	Pass
SURGE IMMUNITY	EN 55035	EN 61000-4-5	+/- 1kV (Line to Line) +/- 2kV (Line to Ground)	Pass
Immunity to Conducted Disturbances Induced by RF fields EN 55035 EN 6100		EN 61000-4-6	3V(0.15MHz-10MHz) 3V-1V(10MHz-30MHz) 1V(30MHz-80MHz) with 80% AM. 1 kHz Modulation	Pass
Power frequency magnetic field	EN 55035	EN 61000-4-8	1A/m 50Hz or 60Hz	N/A
Voltage dips and short interruptions immunity	EN 55035	EN 61000-4-11	Odegrees	Pass

Note: N/A means not applicable.

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8. EN 55032 LINE CONDUCTED EMISSION TEST

8.1. LIMITS OF LINE CONDUCTED EMISSION TEST

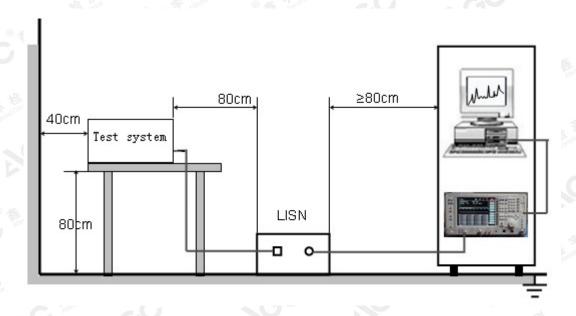
AT AC MAINS POWER PORT

-	Maximum RF Line Voltage				
Frequency	Q.P.(dBuV)	Average(dBuV)			
150kHz-500kHz	66-56	56-46			
500kHz-5MHz	56	46			
5MHz-30MHz	60	50			

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

8.2. BLOCK DIAGRAM OF TEST SETUP



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8.3. PROCEDURE OF LINE CONDUCTED EMISSION TEST

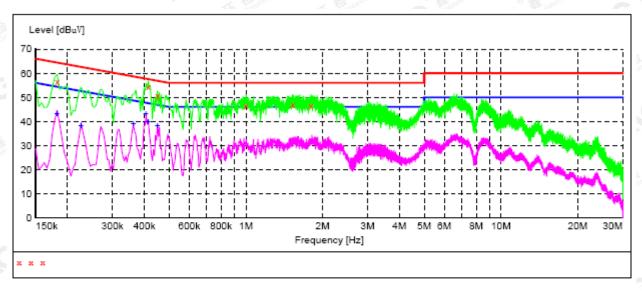
- (1)The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per EN 55032 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per EN 55032.
- (3) All I/O cables were positioned to simulate typical actual usage as per EN 55032.
- (4) The EUT received AC230V and 110V/50Hz power which through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- (5) All support equipments received power from a second LISN supplying power of AC230V and 110V/50Hz, if any.
- (6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- (7) Analyzer / Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- (8) During the above scans, the emissions were maximized by cable manipulation.
- (9) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions.
- (10) Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

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8.4. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L



MEASUREMENT RESULT

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line
0.182000 0.414000 0.450000 1.002000 1.526000 1.798000	56.30 54.60 50.80 46.30 46.90 46.50	11.4 11.4 11.4 11.3 11.3	64 58 57 56 56	8.1 3.0 6.1 9.7 9.1 9.5	QP QP QP QP QP QP	L1 L1 L1 L1 L1 L1

MEASUREMENT RESULT

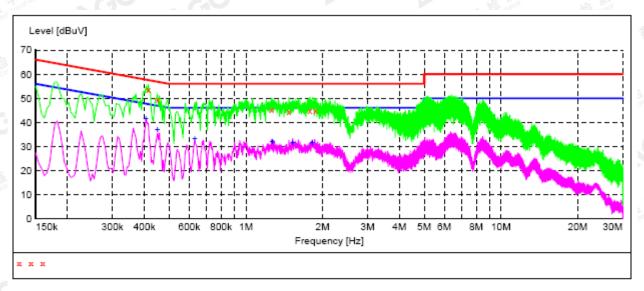
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line
0.182000	43.30	11.4	54	11.1	AV	L1
0.226000	38.10	11.3	53	14.5	AV	L1
0.362000	38.90	11.3	49	9.8	AV	L1
0.406000	43.10	11.4	48	4.6	AV	L1
0.414000	39.70	11.4	48	7.9	AV	L1
0.450000	38.20	11.4	47	8.7	AV	L1

RESULT: PASS

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LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line
0.414000	53.50	11.4	58	4.1	OP	N
0.450000	49.50	11.4	57	7.4	OP	N
1.262000	45.30	11.3	56	10.7	QP	N
1.474000	44.50	11.3	56	11.5	QP	N
1.782000	44.90	11.3	56	11.1	QP	N
1.874000	44.90	11.3	56	11.1	QP	N

MEASUREMENT RESULT

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line
0.406000	41.60	11.4	48	6.1	AV	N
0.450000	36.80	11.4	47	10.1	AV	N
0.630000	33.30	11.4	46	12.7	AV	N
1.270000	31.80	11.3	46	14.2	AV	N
1.526000	31.70	11.3	46	14.3	AV	N
1.822000	31.60	11.3	46	14.4	AV	N

RESULT: PASS

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9. EN 55032 RADIATED EMISSION TEST

9.1. LIMITS OF RADIATED DISTURBANCES

Limits for radiated disturbance 30M to1 GHz at a measurement distance of 3 m

Frequency range (MHz)	Quasi peak limits(dBuV/m), for Class B ITE, at 3m measurement distance				
30 - 230	40				
230 - 1000	47				

Limits for radiated disturbance above 1 GHz at a measurement distance of 3 m

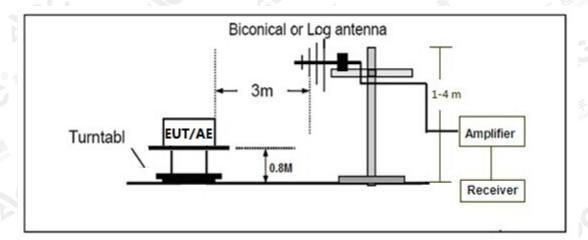
Eroguanov rango (MU=)	Limits (dBuV/m), Class B ITE			
Frequency range (MHz)	Peak	Average		
1000-3000	70	50		
3000-6000	74	54		

Notes:

- 1. The lower limit shall apply at the transition frequency.
- 2. Additional provisions may be required for cases where interference occurs

9.2. BLOCK DIAGRAM OF TEST SETUP

System Diagram of Connections between EUT and Simulators



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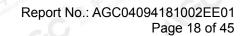


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9.3. PROCEDURE OF RADIATED EMISSION TEST

- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per EN 55032 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per EN 55032.
- (3) All I/O cables were positioned to simulate typical actual usage as per EN 55032.
- (4) The EUT was discharged from resistor which received AC230V and 110V/50Hz power from socket under the turntable, if any.
- (5) The antenna was placed at 3 meter away from the EUT as stated in EN 55032. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
- (6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- (7) The test mode(s) were scanned during the test:
- (8) Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and Q.P./Peak reading is presented.

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9.4. TEST RESULT OF RADIATED EMISSION TEST

Radiated Emission Test at 3m Distance-Horizontal



Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	177.4400	31.85	12.53	40.00	8.15	200	162	Horizontal
2	228.8500	31.04	13.17	40.00	8.96	150	312	Horizontal
3	998.0600	36.47	29.20	47.00	10.53	150	189	Horizontal

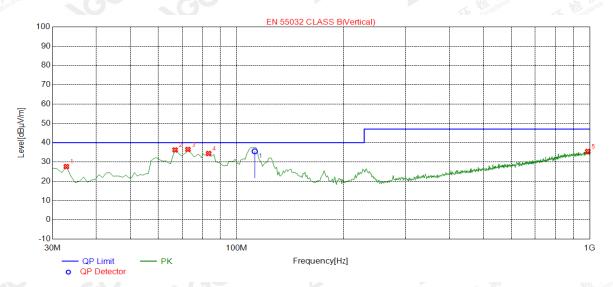
Final I	Final Data List							
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	72.6800	11.27	33.94	40.00	6.06	150	25	Horizontal
2	84.3200	9.75	34.28	40.00	5.72	200	54	Horizontal
3	113.4200	12.23	34.20	40.00	5.80	150	28	Horizontal

RESULT: PASS

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Radiated Emission Test at 3m Distance-Vertical



Suspe	Suspected Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	32.9100	27.58	13.10	40.00	12.42	150	328	Vertical	
2	66.8600	36.21	12.37	40.00	3.79	100	220	Vertical	
3	72.6800	36.48	11.27	40.00	3.52	100	155	Vertical	
4	83.3500	34.38	9.74	40.00	5.62	200	171	Vertical	
5	987.3900	35.44	29.08	47.00	11.56	100	306	Vertical	

Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	112.4500	12.13	35.51	40.00	4.49	150	60	Vertical

RESULT: PASS

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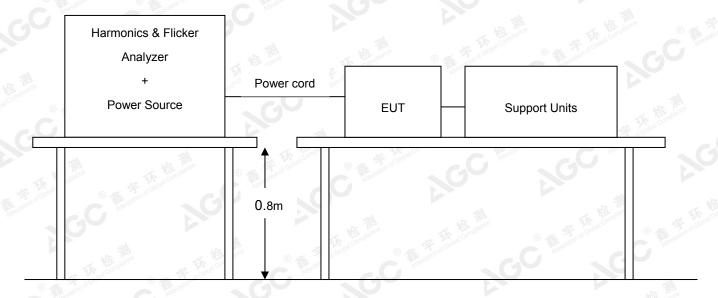
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10. EN 61000-3-2 POWER HARMONICS TEST

POWER HARMONICS MEASUREMENT

Port	AC mains
Basic Standard	EN 61000-3-2
Limits	⊠CLASS A ;□CLASS B; □CLASS C; □CLASS D
Tester	Erik
Temperature	25°C
Humidity	55%

10.1. BLOCK DIAGRAM OF TEST SETUP



10.2. RESULT

Note: Owning to the power of EUT is less than 75W, so test is not applicable.

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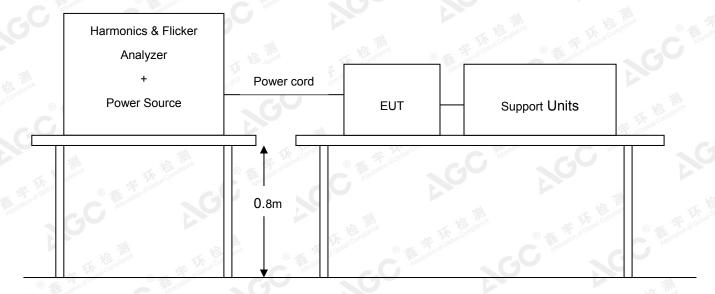
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11. EN 61000-3-3 VOLTAGE FLUCTUATION / FLICKER TEST

VOLTAGE FLUCTUATION/FLICKER MEASUREMENT

Port	AC mains
Basic Standard	EN 61000-3-3
Limits	§5 of EN 61000-3-3
Tester:	Erik Communication of the comm
Temperature	25°C
Humidity	55%

11.1. BLOCK DIAGRAM OF TEST SETUP



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11.2. RESULT

Flicker Test Summary per EN/IEC61000-3-3 (Run time)

EUT: P820.55 Tested by: Erik
Test category: All parameters (European limits) Test Margin: 100
Test date: 11-12-2018 Start time: 15:52:11 End time: 16:02:44

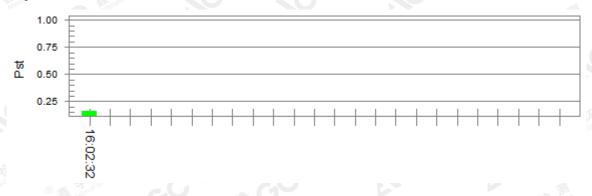
Test duration (min): 10 Data file name: F-000870.cts data

Comment: Normal operation

Customer: Xindao B.V.

Test Result: Pass Status: Test Completed

Pst_i and limit line European Limits



Plt and limit line



Parameter values recorded during the test:

Vrms at the end of test (Volt):	230.78			
Highest dt (%):	0.00	Test limit (%):	3.30	Pass
Time(mS) > dt:	0.0	Test limit (mS):	500.0	Pass
Highest dc (%):	0.00	Test limit (%):	3.30	Pass
Highest dmax (%):	0.00	Test limit (%):	4.00	Pass
Highest Pst (10 min. period):	0.160	Test limit:	1.000	Pass
Highest Plt (2 hr. period):	0.070	Test limit:	0.650	Pass

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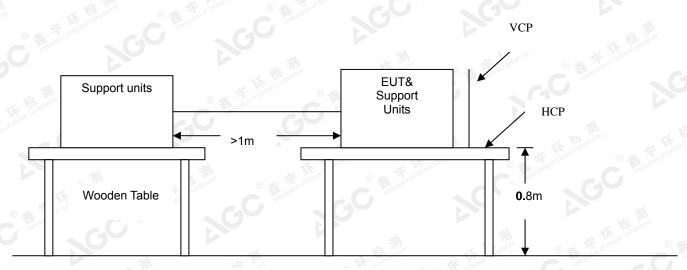
12. EN 61000-4-2 ESD IMMUNITY TEST

ELECTROSTATIC DISCHARGE (ESD) IMMUNITY TEST

Port	Enclosure
Basic Standard	EN 61000-4-2
Test Level	± 8.0 kV (Air Discharge) ± 4.0 kV (Contact Discharge) ± 4.0 kV (Indirect Discharge)
Standard require	B C
Tester	Erik
Temperature	20°C
Humidity	50%

12.1. BLOCK DIAGRAM OF TEST SETUP

(The 470 k ohm resistors are installed per standard requirement)



Ground Reference Plane

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12.2. TEST PROCEDURE

The test procedure shall be in accordance with EN 61000-4-2:2008. Electrostatic discharges shall be applied only to points and surfaces of the EUT which are expected to be touched during normal operation, including user access operations specified in the user manual, for example cleaning or adding consumables when the EUT is powered. The application of discharges to the contacts of open connectors is not required.

The number of test points is EUT dependent. Sub clause 8.3.1 and Clause A.5 of EN 61000-4-2:2008 shall be taken into consideration when selecting test points, paying particular attention to keyboards, dialling pads, power switches, mice, drive slots, card slots, the areas around communication ports, etc. When applying direct discharges to a portable or handheld battery-powered EUT with a display screen, it may not be possible to observe the screen for a given EUT orientation. If observation of the screen is necessary during this test, the EUT may be mounted vertically using non-metallic supports.

Note: As per the A2 to EN 61000-4-2, a bleed resistor cable is connected between the EUT and HCP during the test.

The electrostatic discharges were applied as follows:

Voltage	Coupling	Test Performance	Result
±4kV	Contact Discharge	No function loss	Α
±4kV	Indirect Discharge HCP (Front)	No function loss	A ,
±4kV	Indirect Discharge HCP (Left)	No function loss	A Complete
±4kV	Indirect Discharge HCP (Back)	No function loss	C A
±4kV	Indirect Discharge HCP (Right)	No function loss	Α
±4kV	Indirect Discharge VCP (Front)	No function loss	A. A.
±4kV	Indirect Discharge VCP (Left)	No function loss	A A
±4kV	Indirect Discharge VCP (Back)	No function loss	Α
±4kV	Indirect Discharge VCP (Right)	No function loss	A
±8kV	Air Discharge	No function loss	® A student of clother

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12.3. PERFORMANCE & RESULT

Criteria A:	The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
Criteria B:	The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
Criteria C:	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

⊠ PASS	□ EAU	
⊠rA33	□ <i>FAIL</i>	

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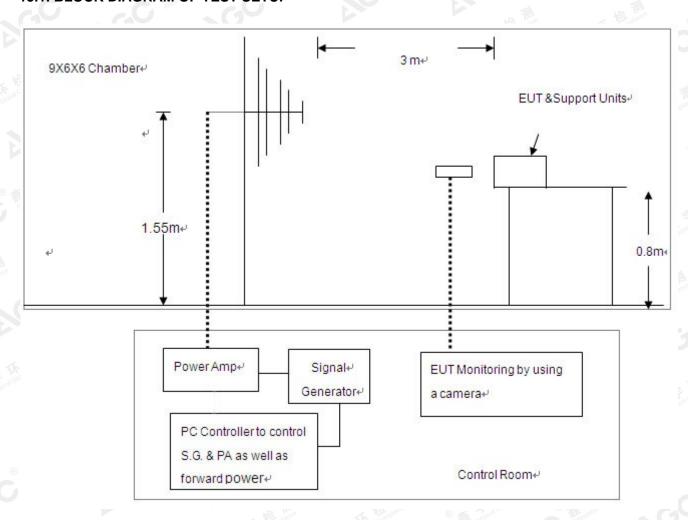


13. EN 61000-4-3 RS IMMUNITY TEST

RADIATED ELECTROMAGNETIC FIELD IMMUNITY TEST

Port	Enclosure
Basic Standard	EN 61000-4-3
Test Level:	3V/m with 80% AM. 1kHz Modulation.
Standard require	A STATE OF THE STA
Tester	Erik
Temperature	25°C
Humidity	55%

13.1. BLOCK DIAGRAM OF TEST SETUP



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13.2. TEST PROCEDURE

The EUT was located at the edge of supporting table keep 3 meter away from transmitting antenna, it just the calibrated square area of field uniformity. The support units were located outside of the uniformity area, but the cable(s) connected with EUT were exposed to the calibrated field as per EN 61000-4-3.

EUT worked with resistance load, and make sure EUT worked normally.

Setting the testing parameters of RS test software per EN 61000-4-3.

Performing the test at each side of with specified level (3V/m) at 1% steps and test frequency from 80MHz to 1000MHz

Recording the test result in following table.

EN 61000-4-3 Final test conditions:

Test level: 3V/m

Steps: 1 % of fundamental

Dwell Time: 1 sec

Range (MHz)	Field	Modulation	Polarity	Position	Test Performance	Result
Range (MITZ)	rieiu	Wodulation	Polarity	Position	rest remormance	Result
80-1000	3V/m	AM	H/V	Front	No function loss	Α
80-1000	3V/m	AM	H/V	Left	No function loss	A
80-1000	3V/m	AM	H/V	Back	No function loss	Α
80-1000	3V/m	AM	H/V	Right	No function loss	A
1800,2600, 3500,5000	3V/m	AM	H/V	Front	No function loss	A
1800,2600, 3500,5000	3V/m	AM	H/V	Left	No function loss	Α
1800,2600, 3500,5000	3V/m	AM	H/V	Back	No function loss	A
1800,2600, 3500,5000	3V/m	AM	H/V	Right	No function loss	A

Frequency (±1 %) for Spot test.

13.3. PERFORMANCE & RESULT

Criteria A:	The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
Criteria B:	The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
Criteria C:	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

Walter 100	(m o) m	(S) Blue	76637 1/31		
		$\boxtimes P$	155	□ <i>FAIL</i>	

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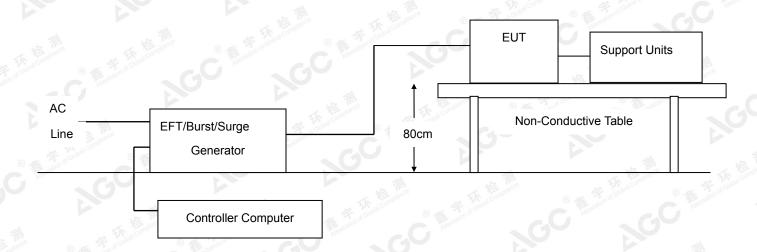
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14. EN 61000-4-4 EFT IMMUNITY TEST

ELECTRICAL FAST TRANSIENTS/BURST IMMUNITY TEST

Port	On Power Supply Lines
Basic Standard	EN 61000-4-4
Test Level	+/- 1kV for Power Supply Lines
Standard require	B A A A A A A A A A A A A A A A A A A A
Tester	Erik
Temperature	25°C
Humidity	55%

14.1. BLOCK DIAGRAM OF TEST SETUP



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14.2. TEST PROCEDURE

The EUT and support units were located on a wooden table 0.8m away from ground reference plane.

A 1.0 meter long power cord was attached to EUT during the test.

The length of communication cable between communication port and clamp was keeping within 1 meter.

EUT worked with resistance load, and make sure EUT worked normally.

Related peripherals work during the test.

Recording the test result as shown in following table.

Test conditions:

Impulse Frequency: 5kHz

Tr/Th: 5/50ns

Burst Duration: 15ms Burst Period: 300ms

Inject Line	Voltage kV	Inject Method	Test Performance	Result
L+N	+/- 1 C	Direct	No function loss	A

14.3. PERFORMANCE & RESULT

Criteria A:	The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
Criteria B:	The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
Criteria C:	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

$oxed{oxed}$ PASS $oxed{oxed}$ FAIL

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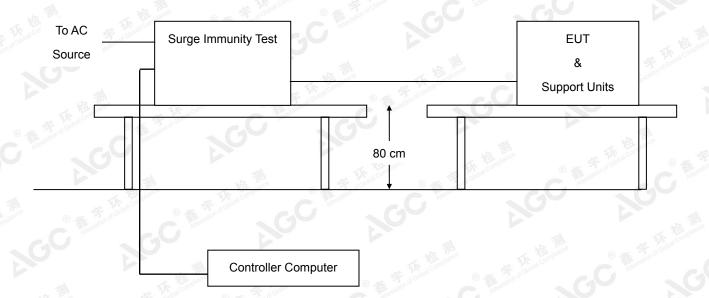
@ 400 089 2118

15. EN 61000-4-5 SURGE IMMUNIT

SURGE IMMUNITY TEST

Port	On Power Supply Lines
Basic Standard	EN 61000-4-5
Requirements	+/- 1kV (Line to Line)
Standard require	B I I I I I I I I I I I I I I I I I I I
Tester	Erik
Temperature	25°C
Humidity	55%

15.1. BLOCK DIAGRAM OF TEST SETUP



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15.2. TEST PROCEDURE

The EUT and support units were located on a wooden table 0.8 m away from ground floor.

EUT worked with resistance load, and make sure EUT worked normally.

Recording the test result as shown in following table.

Test conditions:

Voltage Waveform	1.2/50 <i>u</i> s	® Francisconic
Current Waveform	8/20 <i>u</i> s	C
Polarity	Positive/Negative	
Phase angle	0°, 90°,180°, 270°	
Number of Test	5	COMPANIES OF THE STATE OF THE S

Coupling L	ine	Voltage (kV)	Polarity	Coupling Method	Test Performance	Result
L1-N		1	Positive	Capacitive	No function loss	n of Choose
1 L1-N	1	校 ^训 1	Negative	Capacitive	No function loss	Α

15.3. PERFORMANCE & RESULT

Criteria A:	The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
Criteria B:	The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
Criteria C:	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

The same of the sa			
	⊠ <i>PASS</i>		
	IXI PA SS	<i>FAIL</i>	
		<u> </u>	

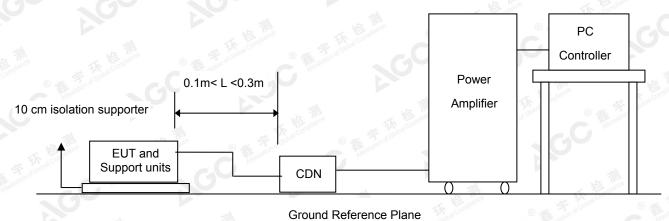
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16. EN 61000-4-6 CS IMMUNITY TEST

Port	On Power Supply Lines
Basic Standard	EN 61000-4-6
Requirements	3V(0.15MHz-10MHz) 3V-1V(10MHz-30MHz) 1V(30MHz-80MHz) with 80% AM. 1 kHz Modulation
Standard require	A C
Tester	Erik
Temperature	25°C
Humidity	55%

16.1. BLOCK DIAGRAM OF TEST SETUP



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16.2. TEST PROCEDURE

The EUT and support units were located at a ground reference plane with the interposition of a 0.1 m thickness insulating support and the CDN was located on GRP directly.

EUT worked with resistance load, and make sure EUT worked normally.

Related peripherals work during the test.

Setting the testing parameters of CS test software per EN 61000-4-6.

Recording the test result in following table.

Test conditions:

Frequency Range	0.15MHz-80MHz	CC M	NGO	line	
Frequency Step	1% of fundamental	:10	TA Complete	The tondards	© Attestal
Dwell Time	3 sec	The the compliance	® Attestation of Global	8) Marganion of Attestation of	

Range (MHz)	Strength	Modulation	Result
0.15-10	3V	AM The state of th	A
10-30	3V-1V	AM Transfer	C A
30-80	1V	AM	Α

16.3. PERFORMANCE & RESULT

The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

	⊠PASS	□ <i>FAIL</i>	
		271 1 20	

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17. EN 61000-4-11 DIPS IMMUNITY TEST

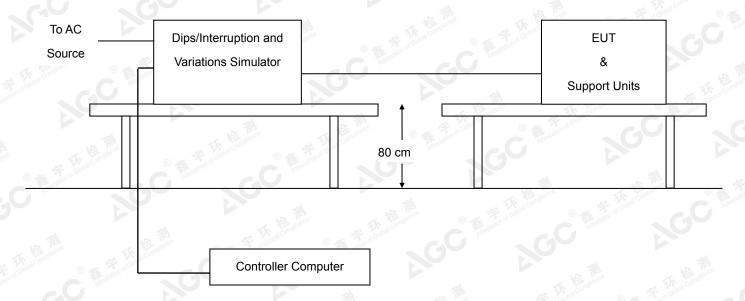
VOLTAGE DIPS. SHORT INTERRUPTIONS AND VOLTAGE VARIATIONS IMMUNITY TEST

Port	On Power Supply Lines
Basic Standard	EN 61000-4-11
Requirements	0 degrees
Test Interval	Min. 10 sec.
Tester	Erik
Temperature	25°C
Humidity	55%

	Test Level % U _T	Reduction (%)	Duration (periods)	Performance Criteria
Voltage Dips	<5	>95	0.5	В
	70	30	25	C TO

Voltage	Test Level	Reduction	Duration	Performance
	% U _T	(%)	(periods)	Criteria
Interruptions	<5	>95	250	C

17.1. BLOCK DIAGRAM OF TEST SETUP



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17.2. TEST PROCEDURE

The EUT and support units were located on a wooden table, 0.8 m away from ground floor.

EUT worked with resistance load, and make sure EUT worked normally.

Setting the parameter of tests and then perform the test software of test simulator.

Conditions changes to occur at 0 degree crossover point of the voltage waveform.

Recording the test result in test record form.

Test conditions:

The duration with a sequence of three dips/interruptions with interval of 10 s minimum (Between each test event)

Voltage Dips:

Test Level % U _T	Reduction (%)	Duration (periods)	Observation	Performance Result
<5	>95	0.5	Normal	A
70	30	25	Normal	A Shared Compared

Voltage Interruptions:

	voitage interior	aptiono.	0 = 3		
Black	Test Level % U _T	Reduction (%)	Duration (periods)	Observation	Performance Result
	<5	>95	250	The EUT stopped working during the test, but it can be recovered automatically after test.	B. Marine

17.3. INTERPRETATION

Criteria A:	The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
Criteria B:	The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
Criteria C:	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

I	⊠PASS	□FAIL	

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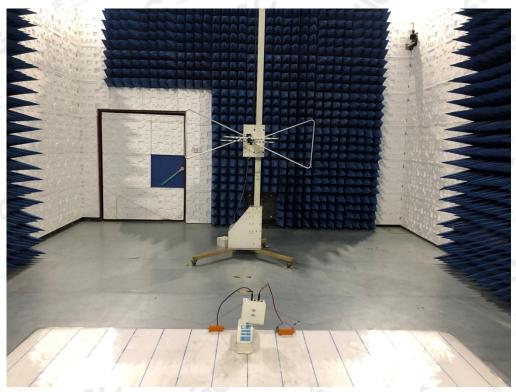


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

EN 55032 CONDUCTED EMISSION TEST SETUP



EN 55032 RADIATED EMISSION TEST SETUP

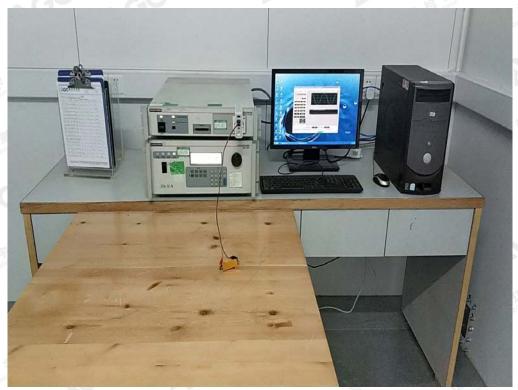


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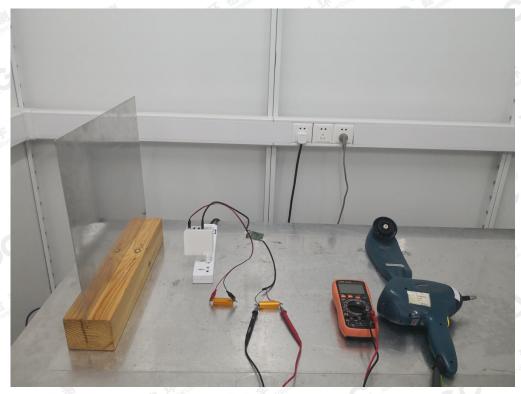
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EN 61000-3-3 VOLTAGE FLUCTUATION / FLICKER TEST



EN 61000-4-2 ESD IMMUNITY TEST SETUP

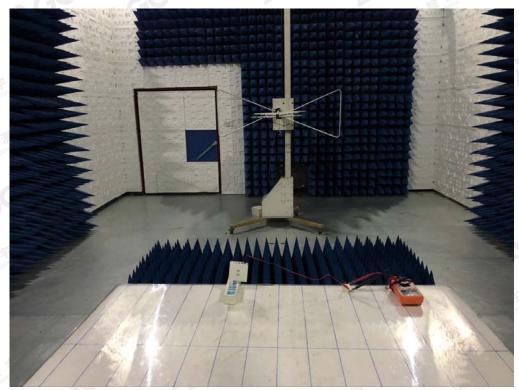


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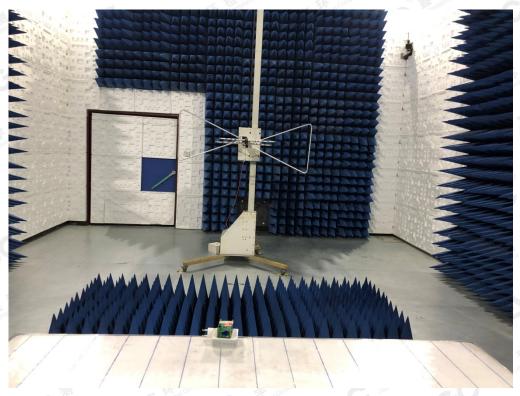
Attestation of Global Compliance



EN 61000-4-3 RS IMMUNITY TEST SETUP



EN 61000-4-3 RS IMMUNITY TEST SETUP-WPT

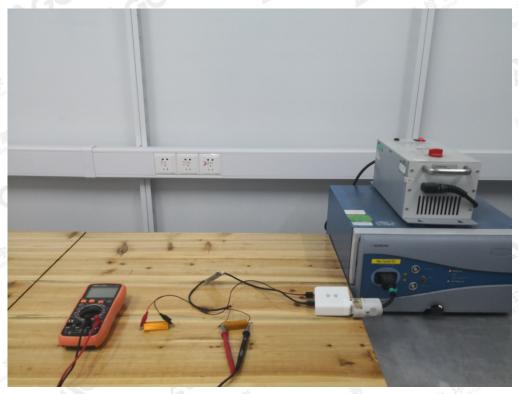


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EN 61000-4-4/-5/-11 EFT/SURGE/DIPS IMMUNITY TEST SETUP



EN 61000-4-6 CS IMMUNITY TEST SETUP



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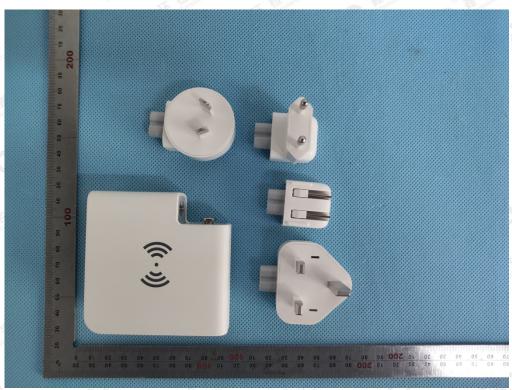
6 400 089 2118

Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT



TOP VIEW OF EUT



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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



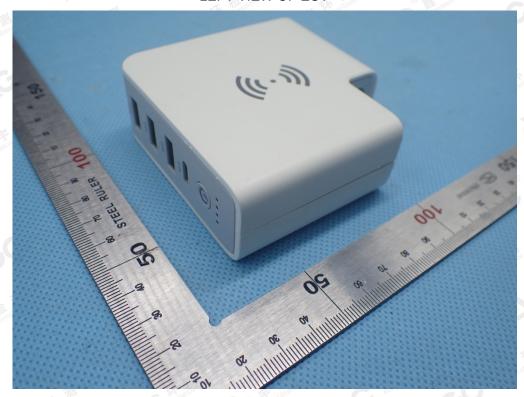
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BACK VIEW OF EUT



LEFT VIEW OF EUT



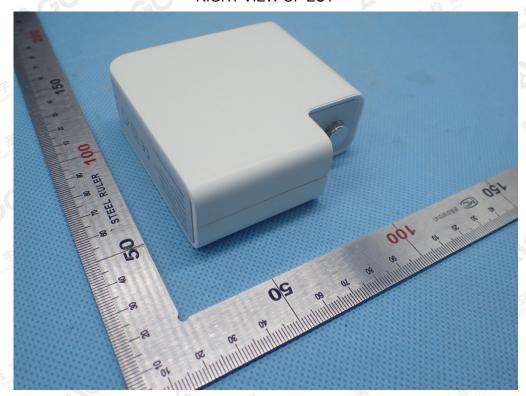
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RIGHT VIEW OF EUT



OPEN VIEW OF EUT

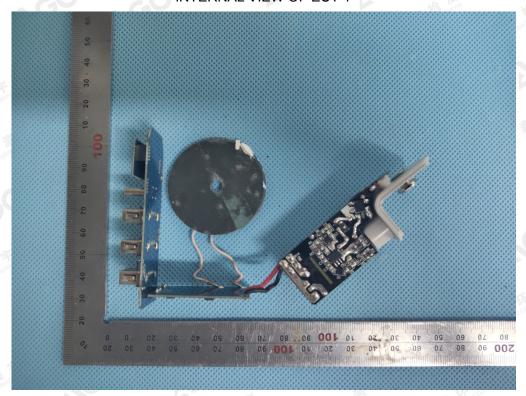


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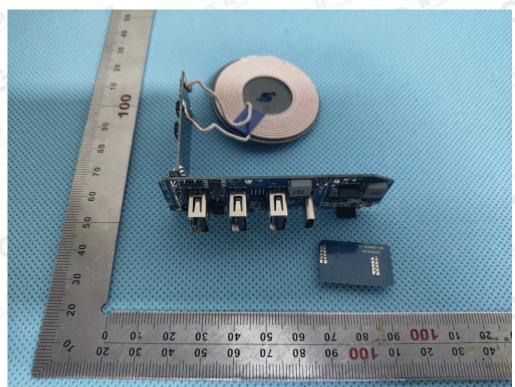
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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2

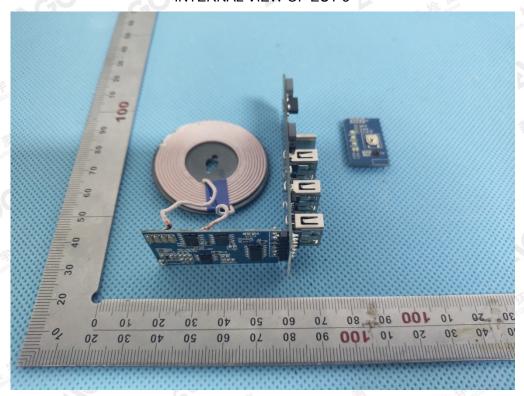


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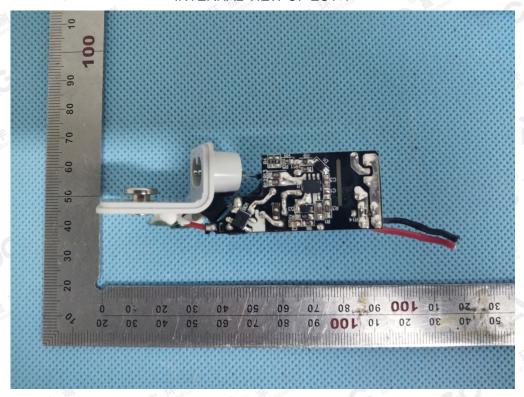
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INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4



----END OF REPORT----

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