

# EMC Test Report

Report No.: AGC01978180903EE02

**PRODUCT DESIGNATION** : Portfolio with wireless power bank  
**BRAND NAME** : N/A  
**MODEL NAME** : P820.591  
**MANUFACTURER** :  
**DATE OF ISSUE** : Oct. 18, 2018  
**STANDARD(S)** : Draft EN 301 489-1 V2.2.0 (2017-03)  
: Draft EN 301 489-3 V2.1.1 (2017-03)  
**REPORT VERSION** : V1.0

**Attestation of Global Compliance (Shenzhen) Co., Ltd**

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### Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Oct. 18, 2018	Valid	Initial release

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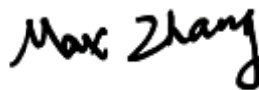


## 1. TEST REPORT CERTIFICATION

Manufacturer	
Address	
Factory	
Address	
Product Designation	Portfolio with wireless power bank
Brand Name	N/A
Test Model	P820.591
Date of test	Sep. 29, 2018 to Oct. 16, 2018
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-EC-EMC

We, Attestation of Global Compliance (Shenzhen) Co., Ltd., hereby certify that the submitted samples of the above item, as detailed in chapter 2.1 of this report, has been tested in our facility. The test record, data evaluation and test configuration represented herein are true and accurate accounts of measurements of the sample's EMC characteristics under the conditions herein specified.

Tested by



Max Zhang(Zhang Yi) Oct. 16, 2018

Reviewed by



Bart Xie(Xie Xiaobin)) Oct. 18, 2018

Approved by



 Forrest Lei(Lei Yonggang)  
 Authorized Officer Oct. 18, 2018

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## 2. GENERAL INFORMATION

### 2.1. DESCRIPTION OF EUT

The EUT is a short range, lower power, WPT device.

Details of technical specification refer to the description in follows:

Transmitter

Hardware Version	G006_A V1.1, GY-G003-V7.071222
Software Version	V1.0
Operation Frequency range	110-205KHz
Test Frequency	163.1KHz
Number of Channels	1 Channel
Antenna Type	Integral antenna
Power Supply	DC3.7V

### 2.2. OBJECTIVE

Perform Electro Magnetic Interference (EMI) and Electro Magnetic Susceptibility (EMS) tests for CE Marking.

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### 2.3. TEST STANDARDS AND RESULTS

The EUT has been tested according to ETSI EN 301 489-1 V2.2.0 (2017-03) and ETSI EN 301 489-3 V2.1.1 (2017-03).

<b>ETSI EN 301 489-1</b>	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU
<b>ETSI EN 301 489-3</b>	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

### 2.4. TEST ITEMS AND THE RESULTS

No.	Basic Standard	Test Type	Result
<b>EMISSION (EN 301 489-1 §7.1)</b>			
1	EN 55032	Radiated emission	PASS
3	EN 55032	Conducted emission, AC ports	N/A
4	EN 55032	Conducted emission, Telecom ports	N/A
5	EN 61000-3-2	Harmonic current emissions	N/A
6	EN 61000-3-3	Voltage fluctuations & flicker	N/A
<b>IMMUNITY (EN 301 489-1 §7.2)</b>			
7	EN 61000-4-2	Electrostatic discharge immunity	PASS
8	EN 61000-4-3	Radiated RF electromagnetic field immunity	PASS
9	EN 61000-4-4	Electrical fast transient/burst immunity	N/A
10	ISO 7637-1, -2	Transients and surges, DC ports	N/A
11	EN 61000-4-5	Surge immunity, AC ports, Telecom ports	N/A
12	EN 61000-4-6	Immunity to conducted disturbances induced by RF fields	N/A
13	EN 61000-4-11	Voltage dips and short interruptions immunity	N/A

**Note:**

1. N/A- Not Applicable.
2. The latest versions of basic standards are applied.

### 2.5. ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

- Temperature: -20-55°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

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### 3. TEST MODE DESCRIPTION

TEST MODE DESCRIPTION		
NO.	TEST MODE DESCRIPTION	WORST
1	Charging with adaptor & load	V
2	standby	--

Note: V means EMI worst mode

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

I/O Port of EUT			
I/O Port Type	Number	Cable Description	Tested With
USB	1	--	1

### 4. MEASUREMENT UNCERTAINTY

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

- Uncertainty of Conducted Emission,  $U_c = \pm 3.2$  dB
- Uncertainty of Radiated Emission below 1GHz,  $U_c = \pm 3.9$  dB
- Uncertainty of Radiated Emission above 1GHz,  $U_c = \pm 4.8$  dB

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## 5. SUPPORT EQUIPMENT

Device Type	Manufacturer	Model Name	specification
Load	--	--	5W

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## 6. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION

<b>Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1F, B5 Building, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, China

### 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	Mar.01, 2018	Feb.28, 2020
Double-Ridged Waveguide Horn	ETS	3117	00034609	Mar.01, 2018	Feb.28, 2020
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-162	Jun.12, 2018	Jun.11, 2019

### TEST EQUIPMENT OF ESD TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
ESD Simulator	Schaffner	NSG 438	782	Jun.12, 2018	Jun.11, 2019

### TEST EQUIPMENT OF RS IMMUNITY TEST

Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
SIGNAL GENERATOR	R&S	E4421B	102525	Jun.12, 2018	Jun.11, 2019
ANTENNA	SCHWARZBECK	VULB9168	494	Feb. 27, 2018	Feb. 26, 2020
POWER SENSOR	R&S	URV5-Z4	100124	Jun.12, 2018	Jun.11, 2019
POWER METER	R&S	NRVD	832378/027	Jun.12, 2018	Jun.11, 2019
POWER AMPLIFIER	KALMUS	7100C	N/A	Jun.12, 2018	Jun.11, 2019
RF AMPLIFIER	Milmega	AS01004-55_55	1004793	Jun.12, 2018	Jun.11, 2019
HORN ANTENNA	ETS LINDGREN	3117	N/A	Feb. 27, 2018	Feb. 26, 2020

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## 7. EMISSION TEST

### 7.1. RADIATED DISTURBANCE MEASUREMENT

#### 7.1.1. 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

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

Notes:

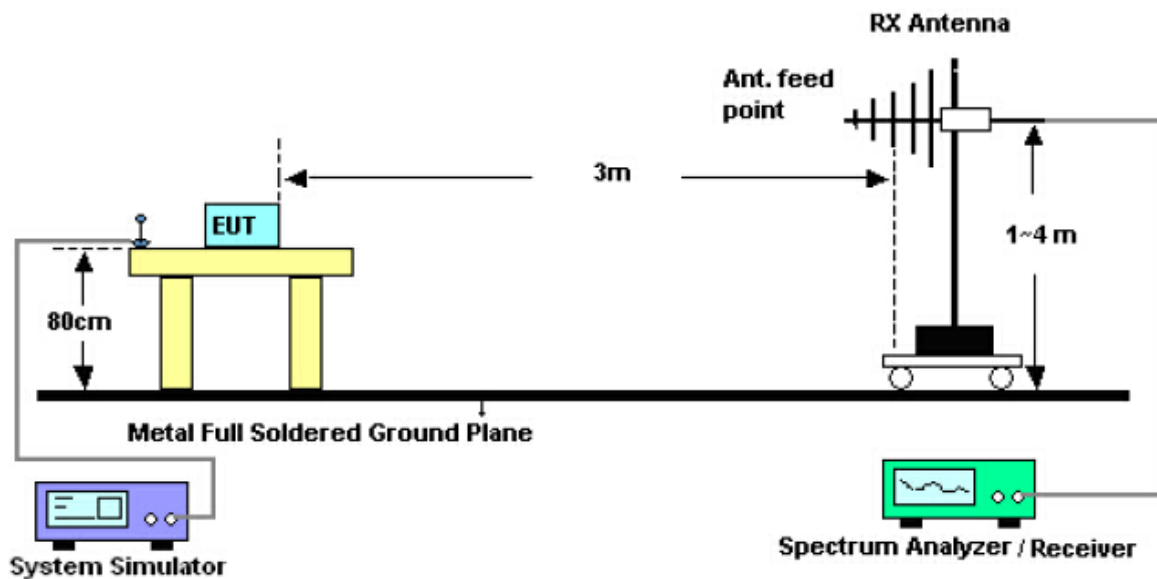
1. The lower limit shall apply at the transition frequency.
2. Additional provisions may be required for cases where interference occurs.

#### 7.1.2. TEST PROCEDURE

- (1). The EUT was placed on the top of an insulating table 0.8 meters above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- (2). The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- (3).The antenna is a broadband antenna, and its height is varied from 1 to 4 meter above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- (4). For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to the heights from 1 to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- (5).The test-receiver system was set to Peak Detector Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emission that did not have 10dB margin would be retested one by one using the quasi-peak method.

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### 7.1.3. BLOCK DIAGRAM OF TEST SETUP



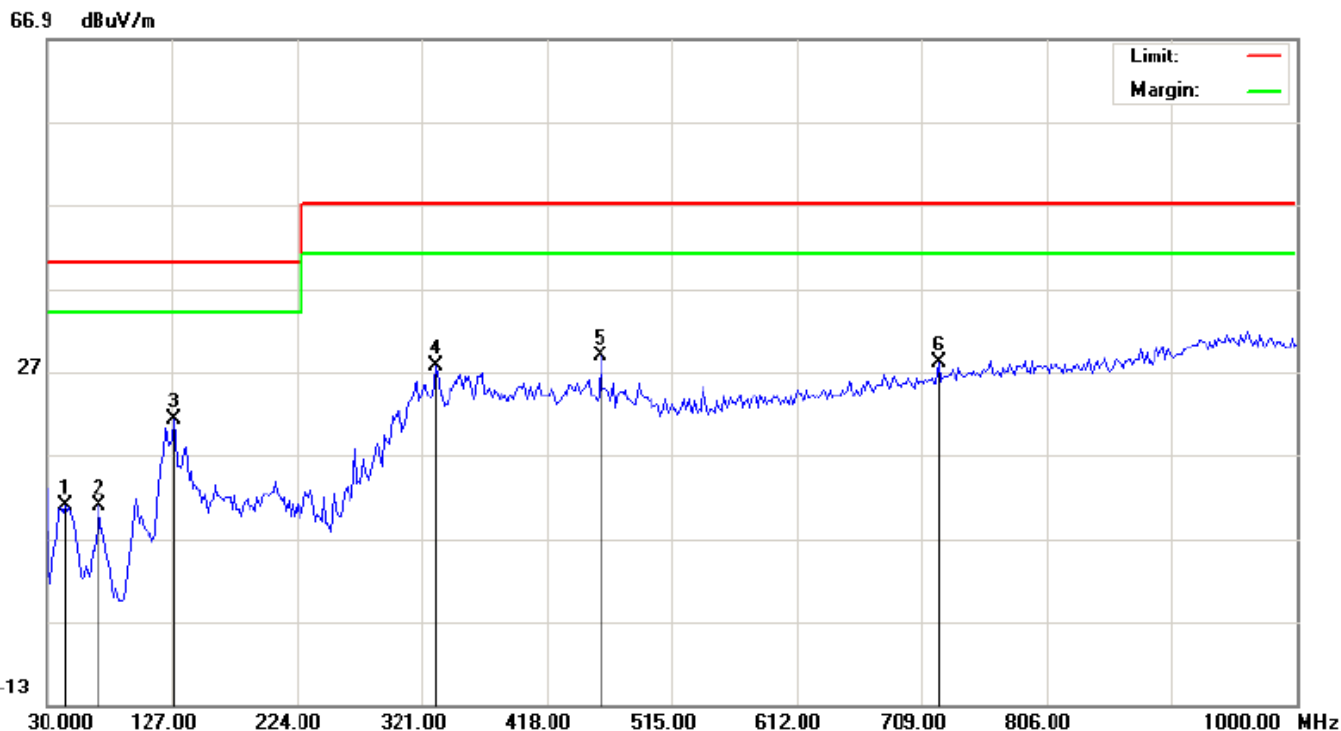
For the actual test configuration, please refer to the related item-Photographs of the Test Configuration.

### 7.1.4 TEST RESULT

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# RADIATED EMISSION BELOW 1GHZ- HORIZONTAL

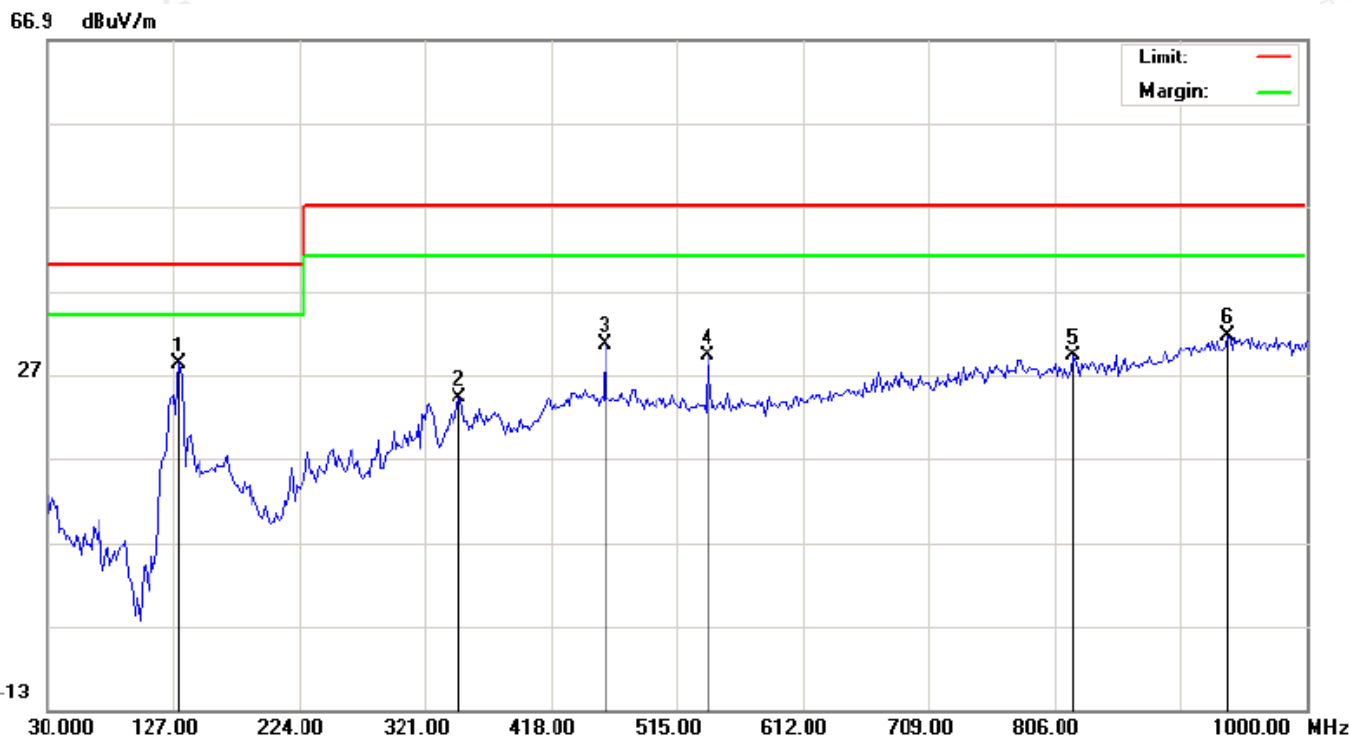


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		44.5499	-0.87	11.60	10.73	40.00	-29.27	peak			
2		70.4167	0.89	9.85	10.74	40.00	-29.26	peak			
3		128.6167	11.24	9.88	21.12	40.00	-18.88	peak			
4		332.3167	10.07	17.56	27.63	47.00	-19.37	peak			
5	*	460.0332	8.05	20.70	28.75	47.00	-18.25	peak			
6		721.9333	2.20	25.84	28.04	47.00	-18.96	peak			

**RESULT: PASS**

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# RADIATED EMISSION BELOW 1GHZ- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	131.8500	16.50	11.80	28.30	40.00	-11.70	peak			
2		346.8667	5.66	18.53	24.19	47.00	-22.81	peak			
3		460.0333	9.90	20.70	30.60	47.00	-16.40	peak			
4		539.2500	7.05	22.19	29.24	47.00	-17.76	peak			
5		820.5500	1.96	27.32	29.28	47.00	-17.72	peak			
6		940.1833	1.96	29.73	31.69	47.00	-15.31	peak			

## RESULT: PASS

Remark: Which above 1GHz are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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## 8. IMMUNITY TEST

### 8.1. EUT SETUP AND OPERATING CONDITIONS

The battery was in full voltage and the charger was connected to the EUT to keep the voltage constant during the tests.

Each immunity test was performed according to the requirements of the standard.

### 8.2. GENERAL PERFORMANCE CRITERIA

#### 1. Performance criteria for Continuous phenomena applied to Transmitter (CT)

For equipment of type II or type III that requires a communication link that is maintained during the test, it shall be verified by appropriate means supplied by the manufacturer that the communication link is maintained during each individual exposure in the test sequence.

Where the EUT is a transmitter, tests shall be repeated with the EUT in standby mode to ensure that any unintentional transmission does not occur.

#### 2. Performance criteria for Transient phenomena applied to Transmitter (TT)

For equipment of type II or type III that requires a communication link that is maintained during the test, this shall be verified by appropriate means supplied by the manufacturer during each individual exposure in the test sequence. Where the EUT is a transmitter, tests shall be repeated with the EUT in standby mode to ensure that any unintentional transmission does not occur.

#### 3. Performance criteria for Continuous phenomena applied to Receiver (CR)

For equipment of type II or III that requires a communication link that is maintained during the test, it shall be verified by appropriate means supplied by the manufacturer that the communication link is maintained during each individual exposure in the test sequence. Where the EUT is a transceiver, under no circumstances shall the transmitter operate unintentionally during the test.

#### 4. Performance criteria for Transient phenomena applied to Receiver (TR)

For equipment of type II or type III that requires a communication link that is maintained during the test, this shall be verified by appropriate means supplied by the manufacturer during each individual exposure in the test sequence. Where the EUT is a transceiver, under no circumstances shall the transmitter operate unintentionally during the test.

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## 5. Performance Table

Performance criteria		
Criteria	During Test	After Test
A	Shall operate as intended. May show degradation of performance. Shall be no loss of function. Shall be no unintentional transmissions.	Shall operate as intended. Shall be no degradation of performance. Shall be no loss of function. Shall be no loss of stored data or user programmable functions.
B	May show loss of function (one or more). May show degradation of performance. No unintentional transmissions.	Functions shall be self-recoverable. Shall operate as intended after recovering. Shall be no degradation of performance. Shall be no loss of stored data or user programmable functions.
C	May be loss of function (one or more).	Functions shall be recoverable by the operator. Shall operate as intended after recovering. Shall be no degradation of performance.

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### 8.3. ELECTROSTATIC DISCHARGE IMMUNITY TEST

#### 8.3.1 TEST SPECIFICATION

Basic Standard	EN 61000-4-2
Discharge Impedance	330Ω / 150 pF
Discharge Voltage	Air Discharge:8 kV , Contact Discharge:4 kV
Polarity	Positive / Negative
Number of Discharge	Minimum 20 times at each test point
Discharge Mode	Single discharge
Discharge Period	1-second minimum

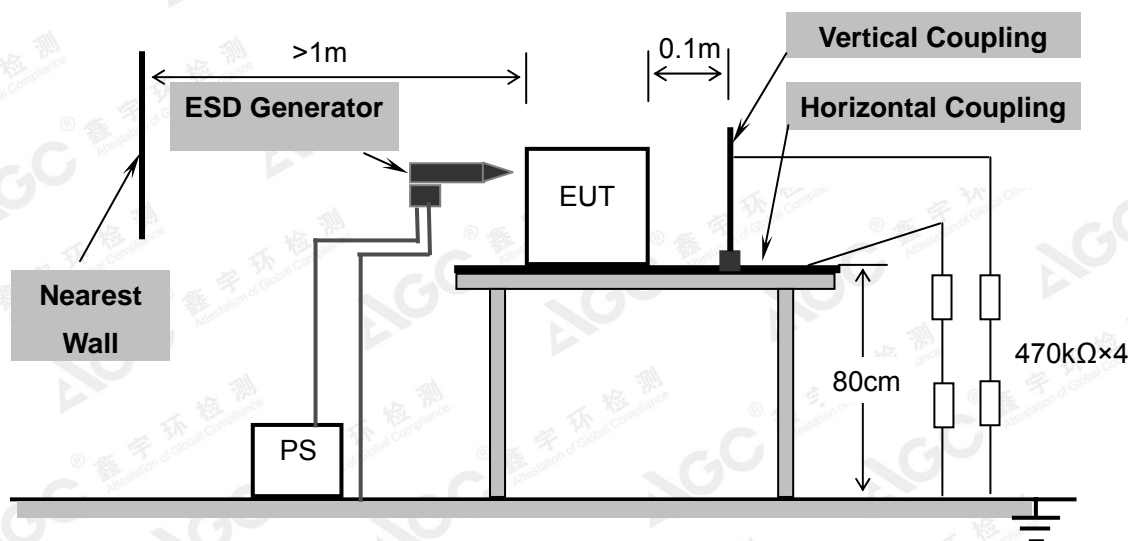
#### 8.3.2 TEST PROCEDURE

The test procedure was in accordance with EN 61000-4-2:

- Electrostatic discharges were applied only to those points and surfaces of the EUT that are accessible to users during normal operation.
- The test was performed with at least ten single discharges on the pre-selected points in the most sensitive polarity.
- The time interval between two successive single discharges was at least 1 second.
- The ESD generator was held perpendicularly to the surface to which the discharge was applied and the return cable was at least 0.2 meters from the EUT.
- Contact discharges were applied to the non-insulating coating, with the pointed tip of the generator penetrating the coating and contacting the conducting substrate.
- Air discharges were applied with the round discharge tip of the discharge electrode approaching the EUT as fast as possible (without causing mechanical damage) to touch the EUT. After each discharge, the ESD generator was removed from the EUT and re-triggered for a new single discharge. The test was repeated until all discharges were completed.
- At least ten single discharges (in the most sensitive polarity) were applied to the Horizontal Coupling Plane at points on each side of the EUT. The ESD generator was positioned vertically at a distance of 0.1 meters from the EUT with the discharge electrode touching the HCP.
- At least ten single discharges (in the most sensitive polarity) were applied to the center of one vertical edge of the Vertical Coupling Plane in sufficiently different positions that the four faces of the EUT were completely illuminated. The VCP (dimensions 0.5m×0.5m) was placed vertically to and 0.1 meters from the EUT.

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### 8.3.3 TEST SETUP



For the actual test configuration, please refer to Appendix II : Photographs of the Test Configuration.

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### 8.3.4 TEST RESULT

#### TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 9.3.2 and EN 61000-4-2 for the measurement methods.

#### ☒ **MODE 1&MODE 2 (TX/RX)**

Amount of Discharges	Voltage	Coupling	Observation	Result (Criteria meet)
Mini 20 / Point	±2kV;±4kV	contact discharge	TR, TT	A
Mini 20 / Point	±2kV;±4kV;±8kV	Air Discharge	TR, TT	A
Mini 20 / Point	±4kV	Indirect Discharge HCP	TR, TT	A
Mini 20 / Point	±4kV	Indirect Discharge VCP	TR, TT	A

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## 8.4. RADIATED, RADIO FREQUENCY ELECTROMAGNETIC FIELD IMMUNITY TEST

### 8.4.1 TEST SPECIFICATION

Basic Standard	EN 61000-4-3
Frequency Range	80 MHz – 6000MHz
Field Strength	3V/m
Modulation	1 kHz sine wave, 80%, AM modulation
Frequency Step	1% of fundamental
Polarity of Antenna	Horizontal and Vertical
Test Distance	3m
Antenna Height	1.55m
Dwell Time	3 seconds

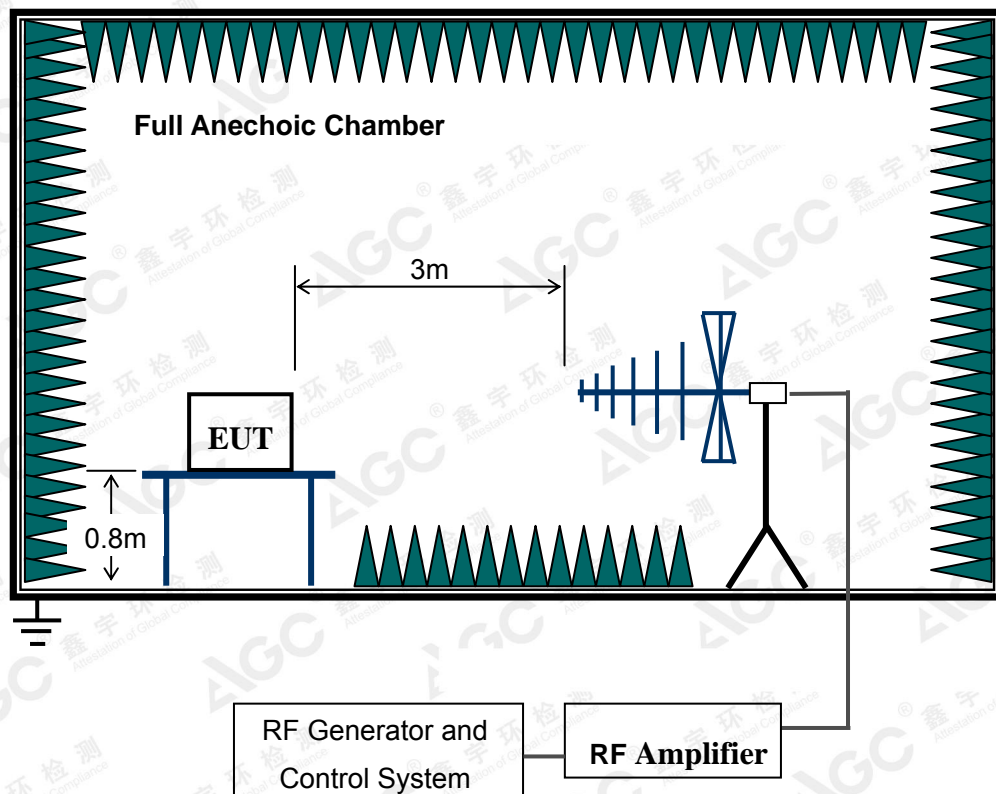
### 8.4.2 TEST PROCEDURE

The test procedure was in accordance with EN 61000-4-3.

- The testing was performed in a fully anechoic chamber. The transmit antenna was located at a distance of 3 meters from the EUT.
- The test signal was 80% amplitude modulated with a 1 kHz sine wave.
- The frequency range was swept from 80 MHz to 6000MHz with the exception of the exclusion band for transmitters, receivers and duplex transceivers. The rate of sweep did not exceed  $1.5 \times 10^{-3}$  decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
- The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.
- The field strength level was 3V/m.
- The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.

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### 8.4.3 TEST SETUP



For the actual test configuration, please refer to Appendix II : Photographs of the Test Configuration.

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#### 8.4.4 TEST RESULT

##### TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 9.2.2, ETSI EN 301 489-17 and EN 61000-4-3 for the measurement methods.

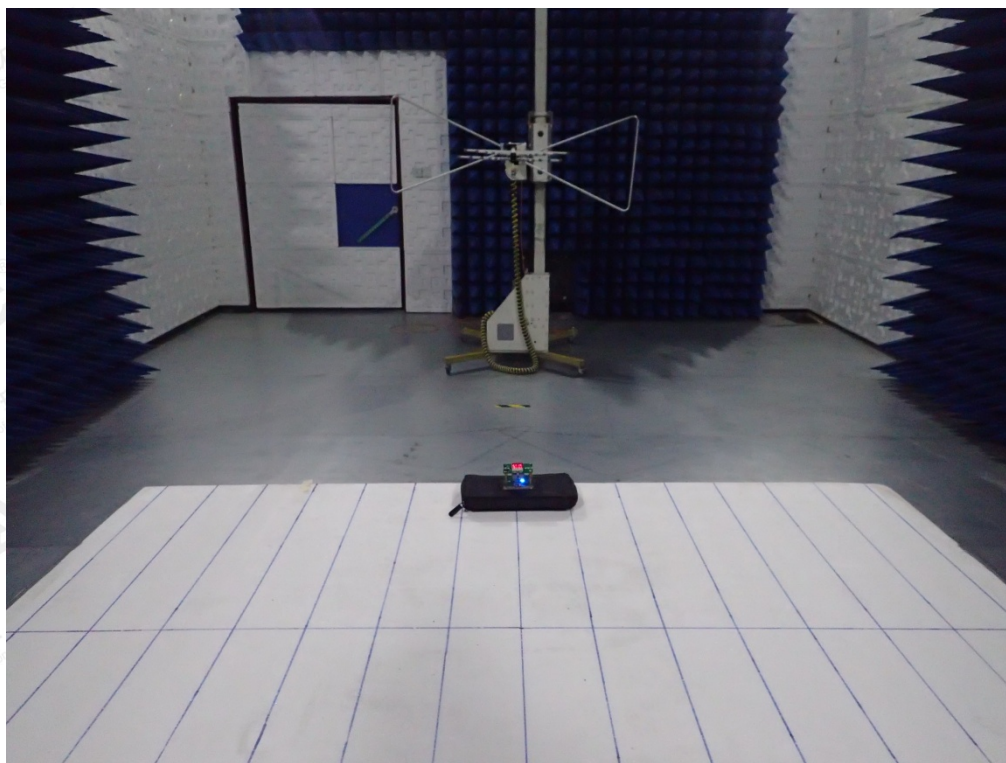
☒ **MODE 1&MODE 2 (TX/RX)**

Freq. Range (MHz)	Field	Modulation	Polarity	Position	Observation	Result (Criteria meet)
80-6000	3V/m	Yes	H	Front	CR, CT	A
80-6000	3V/m	Yes	H	Back	CR, CT	A
80-6000	3V/m	Yes	H	Left	CR, CT	A
80-6000	3V/m	Yes	H	Right	CR, CT	A
80-6000	3V/m	Yes	V	Front	CR, CT	A
80-6000	3V/m	Yes	V	Back	CR, CT	A
80-6000	3V/m	Yes	V	Left	CR, CT	A
80-6000	3V/m	Yes	V	Right	CR, CT	A

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## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

### RADIATED EMISSION



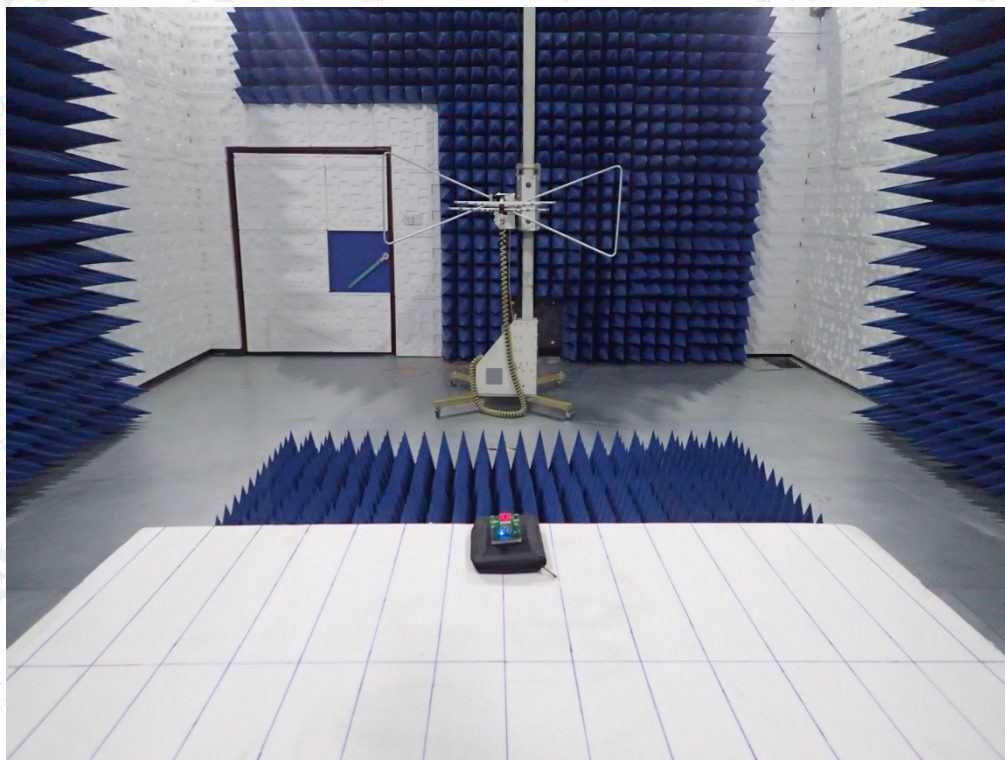
EN 61000-4-2 ESD TEST SETUP



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EN 61000-4-3 RS TEST SETUP



----END OF REPORT----

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