

Page 1 of 22

# **EMC** Test Report

Client Name :	EcoFlow Inc.
	Plant A202, Founder Technology Industrial Park, Shiyan
Address :	Sub-district, Bao'an District Shenzhen, Guangdong
	518000 China
Product Name :	Portable Power Station

Date

Jan. 22, 2022



#### Shenzhen Anbotek Compliance Laboratory Limited

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#### Code:AB-EMC-02-b



Page 2 of 22

# Contents

oter Anu sek soon			
1. General Information			
1.1. Client Information		oon pro-	
1.2. Description of Device (EUT)		hine atek hines	4
1.3. Auxiliary Equipment Used During Test			
1.4. Description of Test Mode	orek prinolis		
1.5. Test Summary			
1.6. Test Equipment List	2000 In 100	sk	6
1.7. Description of Test Facility	- Pue		7
1.8. EMS Performance Criteria			
2. Radiated Emission Test		popore An-	
2.1. Test Standard and Limit			
2.2. Test Setup			
2.3. EUT Configuration on Measurement	-botek pobore	An	
2.4. Operating Condition of EUT		Andrew Andrew	9
2.5. Test Procedure		otek pubore	9
2.6. Test Results			
3. Electrostatic Discharge Immunity Test		10°	
3.1. Test Standard and Level		- poloor An	
3.2. Test Setup		historen P	
3.3. EUT Configuration on Measurement	boten Anbr		
3.4. Operating Condition of EUT	Manatek Mabor		
3.5. Test Procedure			
3.6. Test Results			
4. RF Field Strength Susceptibility Test	Anbo, b		
4.1. Test Standard and Level	ek "nbote"	how	
4.2. Test Setup	tek	Anbo, N	15
4.3. EUT Configuration on Measurement	po. Pr.	hopotes	
4.4. Operating Condition of EUT	Mapore More	all and a second second	
4.5. Test Procedure			
4.6. Measuring Results	and the second s	pore An-	16
APPENDIX I TEST SETUP PHOTOGRAPH	Ann	Anborek Anbo	18
APPENDIX II Photo documentation	en puber		20

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Page 3 of 22

# TEST REPORT

Applicant :	EcoFlow Inc.
Manufacturer :	EcoFlow Inc.
Product Name :	Portable Power Station
Model No. :	EFD500-EB
Trade Mark :	ECOFLOW
Rating(s) :	Input: 48V, 3200W Max Output: 45V-54V, 4260W Max Capacity: 3600Wh, 48V
Test Standard(s) :	EN 55032: 2015+A11: 2020; EN 55035: 2017+A11: 2020; (IEC 61000-4-2; IEC 61000-4-3)

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the EN 55032, EN 55035 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt:

Dec. 27, 2021

Date of Test:

Prepared By:

Dec. 27, 2021~Jan. 18, 2022

Yee Huang

(Yee Huang)

(KingKong Jin)

Approved & Authorized Signer:

Shenzhen Anbotek Compliance Laboratory Limited

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# 1. General Information

## **1.1. Client Information**

Applicant	:	EcoFlow Inc.
Address	:	Plant A202, Founder Technology Industrial Park, Shiyan Sub-district, Bao'an District Shenzhen, Guangdong 518000 China
Manufacturer	:	EcoFlow Inc.
Address	:	Plant A202, Founder Technology Industrial Park, Shiyan Sub-district, Bao'an District Shenzhen, Guangdong 518000 China
Factory	:	EcoFlow Inc.
Address	:	Plant A202, Founder Technology Industrial Park, Shiyan Sub-district, Bao'an District Shenzhen, Guangdong 518000 China

## 1.2. Description of Device (EUT)

Product Name	:	Portable Power Station
Model No.	:	EFD500-EB
Trade Mark	:	ECOFLOW
Test Power Supply	:	DC 48V
Test Sample No.	:	1-1-1-1 <sup>ek</sup> Anbolek Anbolek Anbolek Anbolek Anbolek Anbolek Anbolek Anbolek Anbolek
Product	:	Adapter: N/A
Description		Anboten Anbo
or the U	lser	e detailed features description, please refer to the manufacturer's specifications 's Manual. ort 18230EC10298501-M1 supersedes the test report 18230EC10298501

which is withdrawn.

## 1.3. Auxiliary Equipment Used During Test

N/A

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## Page 5 of 22

## 1.4. Description of Test Mode

Pretest Mode	Description		
Mode 1	Charging	K hotek	Anbote

For Mode 1 Block Diagram of Test Setup

Pur	UT	
	Ulter	
10.3	10-	

## 1.5. Test Summary

Test Items	Test Mode	Status
Power Line Conducted Emission Test (150KHz To 30MHz)	Anbole Ant	nbotek N Anbote
Radiated Emission Test (30MHz To 1000MHz)	Mode 1	Anboren P Ano
Electrostatic Discharge immunity Test	Mode 1	Prek
RF Field Strength susceptibility Test	Mode 1	P <sup>boten</sup>
Electrical Fast Transient/Burst Immunity Test	Anbotek Al	botek N Anbo
Surge Immunity Test	Anbore hek anborek	Anbottk A
Injected Currents Susceptibility Test	Anbotek Anbotek	Anbotek N N
Magnetic Field Susceptibility Test	Anbotek Anbo	potek N Anbotek
Voltage Dips and Interruptions Test	Anboiek A	Anbotek N Anbo
P) Indicates "PASS". N) Indicates "Not applicable".	otek Anbotek	Anbotek An

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## 1.6. Test Equipment List

### Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 22, 2021	1 Year
2.	Pre-amplifier	SONOMA	310N	186860	Oct. 22, 2021	1 Year
3.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Oct. 22, 2021	2 Year
4,t	Software Name EZ-EMC	Ferrari Technology	ANB-03A	o <sup>selt</sup> N/A M	N/A	N/A N/A

#### Electrostatic Discharge Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Anto.	ESD Simulators	emtest	ESD NX30.1	11936	Mar. 25, 2021	1 Year

#### **R/S Immunity Measurement**

			101			
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
otek 1.	Signal Generator	Agilent	N5182A	MY4818065 6	Oct. 22, 2021	1 Year
2.	Amplifier	Micotoop	MPA-80-100 0-250	MPA190309 6	Oct. 22, 2021	1 Year
3. 🕅	Amplifier	Micotoop	MPA-1000-6 000-100	MPA190312 2	Oct. 22, 2021	1 Year
4.	Log-Periodic Antenna	Schwarzbeck	VULP9118E	00992	N/A	N/A
5.	Horn Antenna	Instruments corporation	GTH-0118	351600	Oct. 22, 2021	2 Year
6.	Power Sensor	Agilent	E9301A	MY4149890 6	Oct. 22, 2021	1 Year
7.	Power Sensor	Agilent	E9301A	MY4149808 8	Oct. 22, 2021	1 Year
8.	Power Meter	Agilent	E4419B	GB4020290 9	Oct. 22, 2021	1 Year
9.	Electric field Probe	Narda	EP 601	811ZX10351	Oct. 22, 2021	1 Year
10.	RS Test software	EMtrace	EM 3	V1.1.7	N/A	N/A

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Page 7 of 22

## 1.7. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

## FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111.

## ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

### **Test Location**

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518128

## 1.8. EMS Performance Criteria

- $\checkmark$  A: Normal performance within the specification limits
- B: Temporary degradation or loss of function or performance which is self-recoverable
- C: Temporary degradation or loss of function or performance which requires operator intervention or system reset
- D: Degradation or loss of function which is not recoverable due to damage of equipment (components) or software, or loss of data

Note: The manufacturer's specification may define effects on the EUT which may be considered insignificant, and therefore acceptable.

This classification may be used as a guide in formulating performance criteria, by committees responsible for generic, product and product-family standards, or as a framework for the agreement on performance criteria between the manufacturer and the purchaser, for example where no suitable generic, product or product-family standard exists.

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Page 8 of 22

## Report No.:18230EC10298501-M1

## 2. Radiated Emission Test

## 2.1. Test Standard and Limit

Test Standard EN

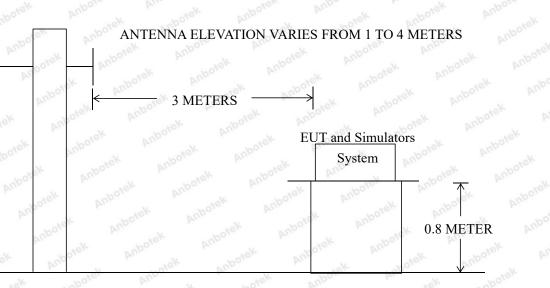
EN 55032

	Radiated Emis	sion Test Limit	ibo h hotek p
Test Limit	Frequency (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMIT (dBµV/m)
	30 ~ 230	unbote 3 Anbo	50
	230 ~ 1000	3 Antos	57
marke (1)The emeller	limit shall apply at the same	hingtion point botwoon tu	o fraguanav banda

**Remark:** (1)The smaller limit shall apply at the combination point between two frequency bands.

- (2) Distance r efers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.
- (3) 3M Limit=10M Limit+k k=20log(D1/D2)=10
  - 3M Limit=10M Limit +10
  - (D1= 10M D2=3M)

## 2.2. Test Setup



GROUND PLANE

## 2.3. EUT Configuration on Measurement

The EN 55032 regulations test method must be used to find the maximum emission during radiated emission measurement.

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## Page 9 of 22

## 2.4. Operating Condition of EUT

- 2.4.1. Setup the EUT as shown in Section 2.2.
- 2.4.2. Turn on the power of all equipments.
- 2.4.3. Let the EUT work in test mode and measure it.

## 2.5. Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Bilog antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the Receiver (ESCI) is set at 120kHz.

The EUT is tested in 9\*6\*6 Chamber.

The test results are listed in Section 2.6.

## 2.6. Test Results

## PASS

The frequency range from 30MHz to 1000MHz is investigated.

The test curves are shown in the following pages.

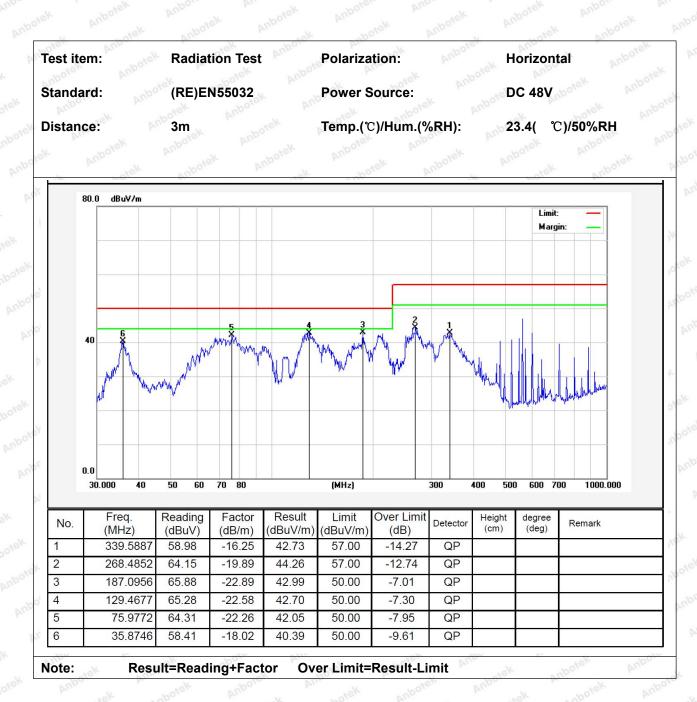
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# Anbotek Product Safety

#### Report No.:18230EC10298501-M1



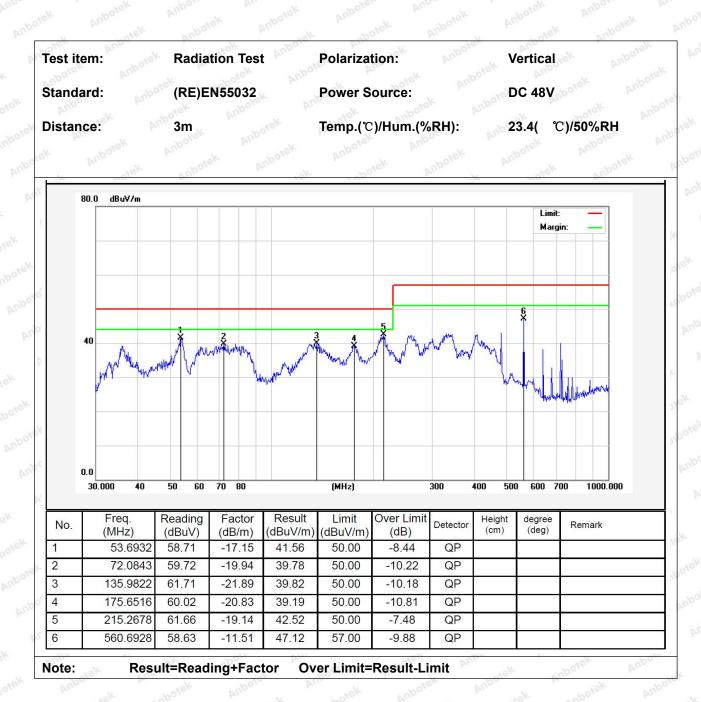
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# Anbotek Product Safety

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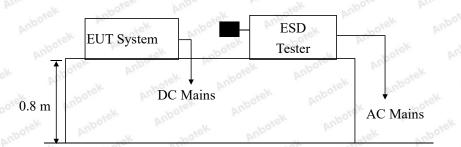
## 3. Electrostatic Discharge Immunity Test

## 3.1. Test Standard and Level

Test Standard:	EN 5	55035 (IEC 6	61000-4-2)	And	Anbotek	Aupor
Performance Criterion:	В	h nbotek	Anboro	An- botek	Anboten	Anbe
Severity Level: 3 / Air Discharge	e: ±8kV, Leve	el: 2 / Contac	t Discharge	: ±4kV	K Anbotet	P

Anboi	bri	tek suboten	PUD	est Level	Anbor	Pri-	anboten
		Т	est Voltage			Test Voltage	
L.	Level	Contac	t Discharge	e (kV)	A	kir Discharge (k	V)
K	1.otek	Anboten Anbo	±2	anbotek p	upor Am	botek ±2 Anbo	ten Aup
494	2. potek	Anbote, Ar	±4	Anbotek	Anbo, A	the	bote. Ar
nou.	x 3. mbote	Anbore ok	±6	Anbotek	Anbu	±8	Anbore
AUD	otek4. Anb	otek Anbort	±8	k Anboter	Anotek	±15	Anbor
Ann	Х.	nbotek Anbo.	Special	otek Anbo	re. Anu bo	Special	Anbo

## 3.2. Test Setup



## 3.3. EUT Configuration on Measurement

The following equipments are installed on electrostatic discharge immunity measurement to meet EN 55035 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

## 3.4. Operating Condition of EUT

- 3.4.1. Setup the EUT as shown on Section 3.2.
- 3.4.2. Turn on the power of all equipments.
- 3.4.3. After that, let the EUT work in test mode measure it.

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## 3.5. Test Procedure

## 3.5.1. Air Discharge:

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed

## 3.5.2. Contact Discharge:

All the procedure shall be same as Section 3.5.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

## 3.5.3. Indirect discharge for horizontal coupling plane

At least 20 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

## 3.5.4. Indirect discharge for vertical coupling plane

At least 20 single discharge shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions  $0.5m \times 0.5m$ , is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

## 3.6. Test Results

PASS

## Please refer to the following page.

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#### Code:AB-EMC-02-b

Page 13 of 22



Page 14 of 22

# **Electrostatic Discharge Test Results**

Air discharge :	±8.0kV	Temperature :	<b>22.4</b> ℃
Contact discharge :	±4.0kV	Humidity :	51%
Power Supply :	DC 48V	Expert conclusion:	A Anbotek And
Number of discharge :	10 Andrew Andrew	Test Result:	🛛 Pass 🗌 Fail

Anbolek Anbolek Locati	nbotek Anbotek on Anbotek Anbotek	<b>Kind</b> A-Air Discharge C-Contact Discharge	Result
Screen	4 points	Anbor A Anbor	ØA □B □C □D
Light	4 points	otek Andrew An	ØA □B □C □D
Button	4 points	httpotek A Anbotek	ØA □B □C □D
Slot http://www.sec	4 points	Anborek A Anbor	⊠A □B □C □D
HCP Manager Manager	4 points	rek AnbCak Ant	⊠A □B □C □D
VCP of the front	4 points	C C	ØA □B □C □D
VCP of the rear	4 points	Amborek C Amborek	⊠A □B □C □D
VCP of the left	4 points	C. And	⊠A □B □C □D
VCP of the right	4 points	potek ACotek	⊠A □B □C □D
Anbortek Anbortek	Anbotek Anbotek	Anbotek Anbotek	Anbotek Anbote
Remark: Discharge should be	Anbotek Anboten	Annu Annu Lipping	

**Remark:** Discharge should be considered on Contact and Air and Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP).

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## 4. RF Field Strength Susceptibility Test

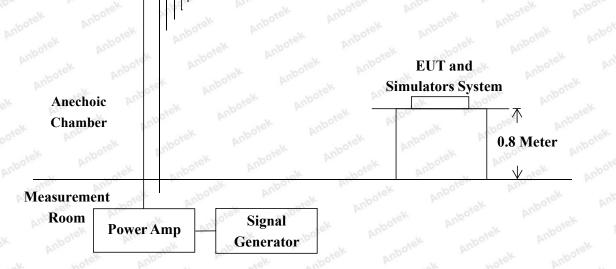
## 4.1. Test Standard and Level

Test Standard:	EN 55035 (IEC 61000-4-3)
Required Performance:	A house Antone Antone Antone Antone A
Frequency Range:	80MHz to 1000MHz, 1800MHz, 2600MHz, 3500MHz, 5000MHz
Field Strength:	3 V/m
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of preceding frequency value
Polarity of Antenna:	Horizontal and Vertical
Test Distance:	3 m And Andrek Andrew Andrew Andrew Andrew
Antenna Height:	1.5 m house protect protect protect protect protect
Dwell Time:	at least 0.5s

Anbote.		where where	Anbo Te:	st Level	tek	Anbote.		. Ala	botek
	Loval				Field S	strength			
Level					V/	/m			
ton Ano	otek 1.	Anbotek I	hpor Pr.	obotek	Anboten	Ano	Lotek	Anbotek	PU
pore. An	2.	Anbotek	Anbo, stek	Anbotek	Anbore	3	botek	Anbotek	
Anbors	3, rek	Anboten	Andou	Anbote	K pro	0	Amobotek	Anbc	der v
Anbo	Χ.	tek Anbote	And hote	Anb	Spe	ecial	p	rek pi	nboter

**3** Meters

4.2. Test Setup



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Page 15 of 22

Page 16 of 22

## Report No.:18230EC10298501-M1

## 4.3. EUT Configuration on Measurement

The following equipments are installed on RF Field Strength susceptibility Measurement to meet EN 55035 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

## 4.4. Operating Condition of EUT

- 4.4.1. Setup the EUT as shown on Section 4.2.
- 4.4.2. Turn on the power of all equipments.
- 4.4.3. After that, let the EUT work in test mode measure it.

## 4.5. Test Procedure

The EUT and support equipment, which are placed on a table that is 0.8 meter above ground and the testing was performed in a fully-anechoic chamber. The testing distance from antenna to the EUT was 3 meters.

- 1) 80 MHz to 1000 MHz the field strength level was 3V/m, 1800MHz, 2600MHz, 3500MHz, 5000MHz the field strength level was 3V/m.
- 2) The frequency range is swept from 80 MHz to 1000 MHz with the signal 80% amplitude modulated with a 1kHz sine wave.
- The frequency range is swept from 1800MHz, 2600MHz, 3500MHz, 5000MHz with the signal 80% amplitude modulated with a 1kHz sine wave.
- 4) The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond, but shall in no case be less than 0.5s.
- 5) The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.

## 4.6. Measuring Results PASS

Please refer to the following page.

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#### Code:AB-EMC-02-b

# RF Field Strength Susceptibility Test Results

Field Strength :	3V/m	Temperature :	<b>22.7</b> ℃
Expert conclusion:	A Anboing Anno	Humidity :	52%
Power Supply :	DC 48V	Test Result :	🛛 Pass 🗌 Fail
Dwell Time:	1s Annotek	Anboten Anbo	Anbotek Anbore A

Frequency Range	Antenna Polarity	R.F. Field Strength	Azimuth	Result
potek Anbots	Am nbotek A	botek Anbo	Front Motor	tek onbotek
	k Anbotek		Rear	ØA □B
80MHz~1000MHz	H/V	3 V/m (rms)	Left	
Anbo botek	inbotek Anbore	ek anbotek Anbo	Right	Anbotek Anbo
1800MHz		potek Anbotek Ar	Front	Anboten An
2600MHz	H/V	3 V/m (rms)	Rear	⊠A □B
3500MHz	ATLY V	5 V/III (IIIIS)	Left	
5000MHz	hotek Anbotek	Anboten Anbo	Right	Anbore Ant

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Page 18 of 22

# **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Photo of Radiated Emission Test



Photo of Electrostatic Discharge Immunity Test



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Page 19 of 22



Photo of RF Field Strength susceptibility Test

#### Shenzhen Anbotek Compliance Laboratory Limited

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Anbotek Product Safety

## Report No.:18230EC10298501-M1

## **APPENDIX II -- Photo documentation**



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Page 20 of 22



Page 21 of 22





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Page 22 of 22

## **CE Label**

- 1. The CE conformity marking must consist of the initials 'CE' taking the following form:
  - If the CE marking is reduced or enlarged, the proportions given in the above graduated drawing must be respected.
  - The CE marking must have a height of at least 5 mm except where this is not possible on account of the nature of the apparatus.
  - 3. The CE marking must be affixed to the product or to its data plate. Additionally it must be affixed to the packaging, if any, and to the accompanying documents.
  - The CE marking must be affixed visibly, legibly and indelibly.
    It must have the same height as the initials 'CE'.

--- End of Report -----

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