

Page 1 of 23

# **EMC** Test Report

Client Name : Dong Guan Ever Development Electronics Co., Ltd

Address No. 55 Yinkeng Road, Shangyuan Industrial Area, Qingxi Town, Dongguan City, Guangdong Province, P.R.China

Product Name : CALCULATOR

Date : Aug. 31, 2019

# Shenzhen Anbotek Compliance Laboratory Limited

#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com

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

Anbotek Product Safety

Report No.: SZAIE190826001-01

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# TEST REPORT

Applicant	Dong Guan Ever Development Electronics Co., Ltd
Manufacturer	Dong Guan Ever Development Electronics Co., Ltd
Product Name	CALCULATOR
Model No.	KF11508
Trade Mark	Q-CONNECT
Rating(s)	Input: DC 1.5V
	Battery: DC 1.5V
Test Standard(s)	: EN 55032: 2015; EN 55024: 2010+A1: 2015; (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 and EN 55024 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:

Date of Test:

Prepared By:

Aug. 26, 2019

Aug. 26~29, 2019

Winnie Huang

(Engineer / Winnie Huang)

Wen Work

Reviewer:

# Approved & Authorized Signer:

#### Shenzhen Anbotek Compliance Laboratory Limited

sally zhang

(Supervisor / Well Wang)

(Manager / Sally Zhang)

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# **1. General Information**

# 1.1. Client Information

Applicant	: Dong	Guan Ever Development Electronics Co., Ltd
Address	10 <sup>2</sup>	5 Yinkeng Road, Shangyuan Industrial Area, Qingxi Town, Dongguan Guangdong Province, P.R.China
Manufacturer	: Dong	Guan Ever Development Electronics Co., Ltd
Address	(C. 1	5 Yinkeng Road, Shangyuan Industrial Area, Qingxi Town, Dongguan Guangdong Province, P.R.China
Factory	: Dong	Guan Ever Development Electronics Co., Ltd
Address	- 0°	5 Yinkeng Road, Shangyuan Industrial Area, Qingxi Town, Dongguan Guangdong Province, P.R.China

# 1.2. Description of Device (EUT)

Product Name	:	CALCULATOR
Model No.	:	KF11508
Trade Mark	:	Q-CONNECT
Test Power Supply	:	DC 1.5V
Test Sample No.	:	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Product Description	:	Adapter: N/A
Dir.		e detailed features description, please refer to the manufacturer's specifications 's Manual.

# 1.3. Auxiliary Equipment Used During Test

N/A

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# 1.4. Description of Test Mode

- V 100 PN		_
Pretest Mode	Description	
Mode 1	Anboren Anbo stek unbore On Anbore Ann borek p	nbo

For Mode 1 Block Diagram of Test Setup

EUT

# 1.5. Test Summary

Test Items	Test Mode	Status
Power Line Conducted Emission Test (150KHz To 30MHz)	Anorabotek	Anbotek N Ambo
Radiated Emission Test (30MHz To 1000MHz)	Mode 1	Anboto PR
Electrostatic Discharge immunity Test	Mode 1	Anbe Brek
RF Field Strength susceptibility Test	Mode 1	otek Ribotek
Electrical Fast Transient/Burst Immunity Test	Anbout	stotek N Anboli
Surge Immunity Test	tel Anlotek	Anbois N
njected Currents Susceptibility Test	botek Anbotew	AndNek
Magnetic Field Susceptibility Test	Anbotek / Anbo	Nootek
Voltage Dips and Interruptions Test	Anbury A	npotek N Anboth
<ul> <li>P) Indicates "PASS".</li> <li>N) Indicates "Not applicable".</li> </ul>	ek Anbotek	Anboten Ant

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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	ESCI	100627	Nov. 05, 2018	1 Year
2.	Pre-amplifier	Schwarzbeck	BBV-9745	9745-075	May. 05, 2019	1 Year
3.	Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	01109	Nov. 05, 2018	1 Year
4t	Software Name EZ-EMC	Ferrari Technology	EMEC-3A1	N/A	N/A	N/A N/A

### Electrostatic Discharge Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	ESD Simulators	3Ctest	EDS-30T	ES0131505	Nov. 26, 2018	1 Year

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

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Signal Generator	Agilent	N5182A	MY4818065 6	Nov. 05, 2018	1 Year
2	Amplifier	Micotoop	MPA-80-100 0-250	MPA190309 6	N/A	N/A
3	Amplifier	Micotoop	MPA-1000-6 000-100	MPA190312 2	botek N/A Anbot	N/A
4	Log-Periodic Antenna	Schwarzbeck	VULP9118E	00992	Aug. 17, 2018	3 Year
5 botek	Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 19, 2018	3 Year
6	Power Sensor	Agilent	E9301A	MY4149890 6	Nov. 05, 2018	1 Year
7 <sup>Ani</sup>	Power Sensor	Agilent	E9301A	MY4149808 8	Nov. 05, 2018	1 Year
8	Power Meter	Agilent	E4419B	GB4020290 9	Nov. 05, 2018	1 Year
9	Field Probe	ETS-Lindgren	HI-6006	00212747	Apr. 20, 2017	3 Year
10	software	EMtrace	EM 3	N/A hor	N/A	N/A

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# 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, September 30, 2018.

# **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, March 07, 2019.

# **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.518102

# **1.8. EMS Performance Criteria**

- 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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# 2. Radiated Emission Test

# 2.1. Test Standard and Limit

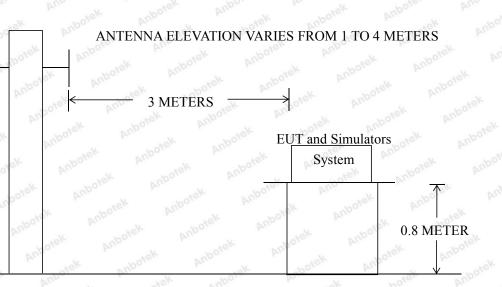
Test Standard	EN 55032	botek	Anbotek	Anburgtek	Anbotek	Anbort	P.I.

K wotek Al	Radiated Emiss	sion Test Limit	hotek Anbo.		
Test Limit	Frequency (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMIT (dBµV/m)		
	30 ~ 230	Ando 3 hot	40		
	230 ~ 1000	Anto 3	and AT And		
Remark: (1) The smalle	er limit shall apply at the com	bination point between t	wo frequency bands		

(2) Distance refers 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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# 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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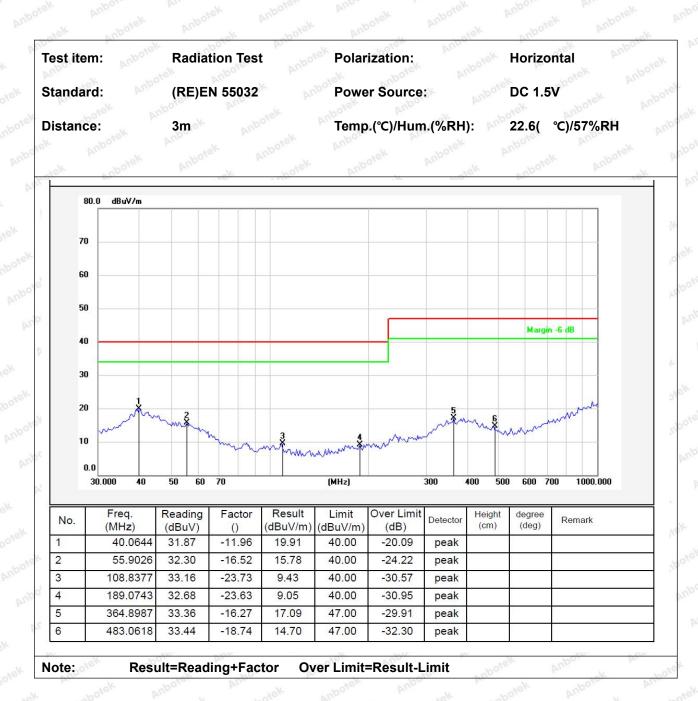
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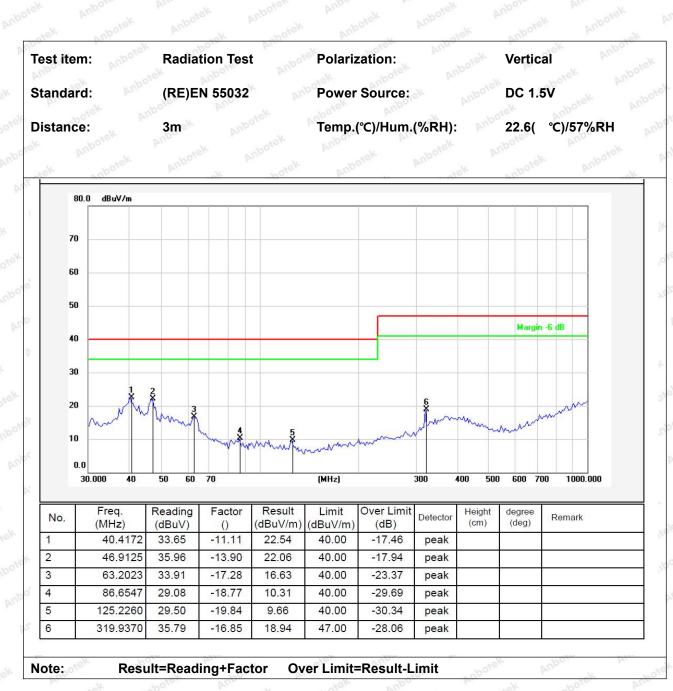
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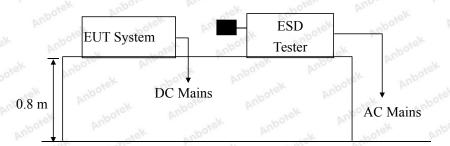
# 3. Electrostatic Discharge Immunity Test

# 3.1. Test Standard and Level

Test Standard:	EN 5	55024 (IEC 6	1000-4-2)	Anbotek	Anbore	Ant
Performance Criterion:	в	Anbore	Anthote	k Anbotek	Anbo. otek	
Severity Level: 3 / Air Discharge: ±8kV	/, Leve	el: 2 / Contact	Discharge	e: ±4kV	AUDO	- Yo

P	in tek	Test Level	And tek abotek Anbo			
	Loval	Test Voltage	Test Voltage			
X-	Level	Contact Discharge (kV)	Air Discharge (kV)			
de la	Arlooten	the ±2 most s	holden ±2 holden			
105	otek 2 <sub>k</sub> nboten	And hotek Ant ±4ek Andor	And Andrek Antonie ±4 Andrek			
	nbotek 3. Anbot	±6 men prov	±8			
10	Anbotek4. Ant	±8 house ±8 house	±15			
le l	X.	Special	Special			

# 3.2. Test Setup



# 3.3. EUT Configuration on Measurement

The following equipments are installed on electrostatic discharge immunity measurement to meet EN 55024 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 25 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 50 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 50 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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Anbotek Product Safety

# Report No.: SZAIE190826001-01 Page 14 of 23 Electrostatic Discharge Test Results

Air discharge :	±8.0kV	Temperature :	<b>24.9℃</b>
Contact discharge :	±4.0kV	Humidity :	50%
Power Supply :	DC 1.5V	Expert conclusion :	A Anborotek A
Number of discharge :	25	Test Result:	🛛 Pass 🗌 Fail
boin pris	der hap	ok bor P	N. Nor

Arr otek Anboten	Anbe wet whotek	Kind	Anboten Anbo
Locat	tion <sup>bote</sup> And stek	A-Air Discharge	Result
stek Anbote, Anu otek		C-Contact Discharge	An-
	ak abotek Anbote	All wotek anbot	⊠A □B
Slot of the EUT	2 points	And A And A	D C D
Anter Anter Ant	2 nointe	otek Anbo, A	⊠A □B
Screen	2 points	hotek Anbote	
Button	10 points	A Anbotek	⊠A □B
Bullon Anborek	Ante To points	And ak abotek	
Screw	4 points	Anbor	⊠A □B
DOLEW AND LOK ADDOLE	Anbo4 points ar	k Anbolic Ano	
НСР	4 points	stek antonek Ant	⊠A □B
Antotek Anbote And	+ points	p h o botek	
VCP of the front	4 points	hbore Antek	⊠A □B
	And Points	Anboten Anbo	
VCP of the rear	4 points	anbotek C Anbor	⊠A □B
	Anbore Pointo	All hotek Anbore	
VCP of the left	4 points	Colt Anto	⊠A □ B
	Pointo	tek Anb cek	
VCP of the right	4 points	C C	⊠A □B
	And	hotek anboten	
Anbotek Anbor	Anbotek Anboten	Anbotek Anbotek	Anbois An
stek anbotek Anbo	abotek Anbote	Ant wotek Anbote	Anbo
tek nbort	pri noter	And	tek sabor

**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

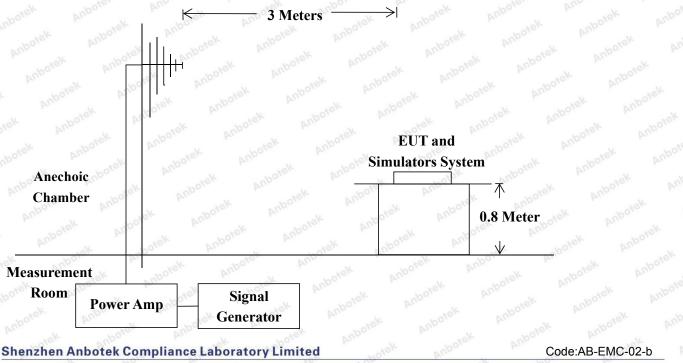
# 4.1. Test Standard and Level

, NO,	by bo bo
Test Standard:	EN 55024 (IEC 61000-4-3)
Required Performance:	A subotek Anbou An sotek Anboten Anbo
Frequency Range:	80MHz to 1000MHz
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 potek Anboie Anboiek Anboiek Anbo
Antenna Height:	1.5 m hotek unbole And at abotek unbol k
Dwell Time:	at least 0.5s

#### Test Level

Level			Field Strength V/m						
Annotek	1.	nbotek	Anbu	-botek	Anbore	_ 1 *	In sotek	Anbotek	Anbo
Pup.	2.	anbotek	Aupor	Ar. hotek	Anbo	3	Anthe	anbot	ek pr
oten Anbi	3.	abotek	Anbore	K Lote	K AT	10	AUPO	in Max	potek
unbotek A	Χ.	p	Anbo	He. Ann	otek	Specia	Anbo	nak ha	botek

# 4.2. Test Setup



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# Hotline



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## 4.3. EUT Configuration on Measurement

The following equipments are installed on RF Field Strength susceptibility Measurement to meet EN 55024 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) 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.
- 3) 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.
- 4) 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

Anbotek Product Safety

# Report No.: SZAIE190826001-01 Page 17 of 23 RF Field Strength Susceptibility Test Results

Field Strength :	3V/m	Temperature :	<b>24.9℃</b>
Expert conclusion :	A Anbotek Anbo	Humidity :	50%
Power Supply :	DC 1.5V	Test Result :	🛛 Pass 🗌 Fail
Dwell Time:	1stek Anbotek	Anbo hotek Anbotek	Anbore Ane Ane

Frequency Range (MHz)	Antenna Polarity	R.F. Field Strength	Azimuth	Result
potek Anbotek	Anbotek And	botek Anbotek A	Anbore <sup>®</sup> Front Anbore	Anborb Al
80~1000	Anbotek	3 V/m (rms)	Rear	ØA □B
Anborek Ant	H / V	3 V/III (IIIIS)	Left	
ek Anboten		ek Anbore All	Right	Anbotek An

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



Photo of Radiated Emission Test

# Photo of Electrostatic Discharge Immunity Test



#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com

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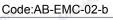
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Photo of RF Field Strength susceptibility Test

### **Shenzhen Anbotek Compliance Laboratory Limited**

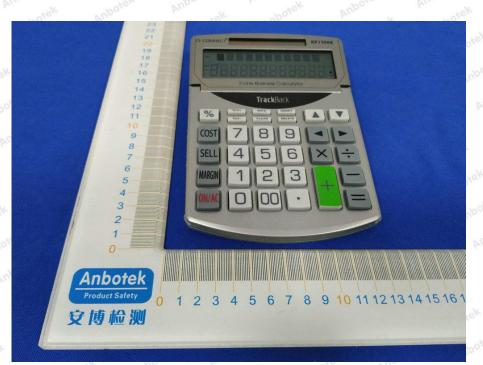
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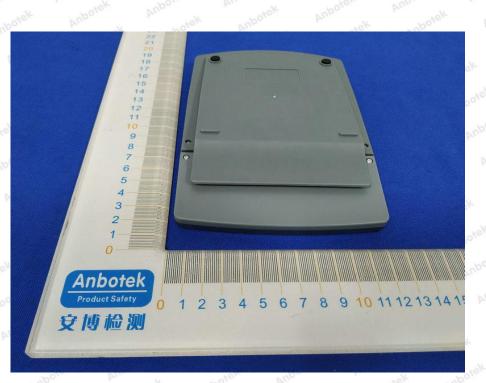




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# **APPENDIX II -- EXTERNAL PHOTOGRAPH**





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# **APPENDIX III -- INTERNAL PHOTOGRAPH**





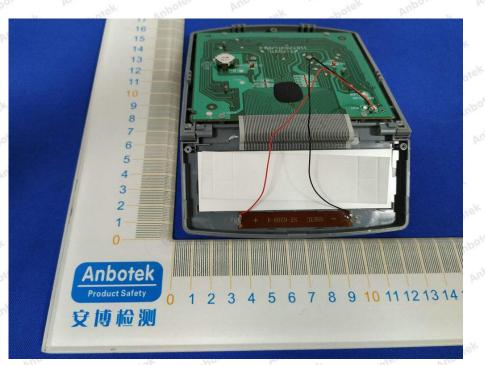
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# **CE** Label

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.

- 2. 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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