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Anboiek Client Name

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Shenzhen Techtion Smart Electronics Co.,

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Client Address And :

Room 902, 8th Floor, Unit 1, Building No. 2, Xintianxia Chengyun Factory District, Vanke City Community, Bantian Street, Longgang

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District, Shenzhen

Product Name

Stretched Bar Display

**Report Date** 

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2024.11.13

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# Marking

Report No.:1819C40062413102

- The test report is invalid without the official stamp of Shenzhen Anbotek Compliance Laboratory Limited.
- 2. Nobody is allowed to photocopy or partly photocopy this test report without written permission of Shenzhen Anbotek Compliance Laboratory Limited.
- 3. The test report is invalid without the signature of the approver.
- 4. The test report is invalid if altered.
- 5. Objections to the test report must be submitted to Shenzhen Anbotek Compliance Laboratory Limited within 15 days.
- 6. The test report is valid for the tested samples only.
- 7. As for test verdict, "—"means "no need for judgment" "N/A" means "not applicable"
  - 8. The power supply voltage variation test is conducted by the EMC laboratory at the testing location Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

Shenzhen Anbotek Compliance Laboratory Limited

Code: AB-AR-01-e Hotline







# **TEST REPORT**

Report No.:1819C40062413102

Client Name : Shenzhen Techtion Smart Electronics Co., Ltd

Room 902, 8th Floor, Unit 1, Building No. 2, Xintianxia Chengyun Factory

Address : District, Vanke City Community, Bantian Street, Longgang District,

Shenzhen

Report on the submitted sample(s) said to be:

Product Name : Stretched Bar Display

TS-286THD(Main Test), TS-XXXTHD/TS-XXXPHD ("X" stands for a-z or

number or empty, or - or #; Different combinations of products represent different sales channels and customers; Does not affect product safety

and electromagnetic compatibility.)

Trademark :

Description : /

Sample(s)

Model

received quantity : 1pc

Sample(s)

Testing quantity : 1pc

Manufacturer : Shenzhen Techtion Smart Electronics Co., Ltd

Factory : Shenzhen Techtion Smart Electronics Co., Ltd

Other information : /

Sample(s)

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received Date : 2024.10.19

**Testing period** : 2024.10.19 - 2024.10.25



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Prepared by:	work.	Aupole	Checked by:

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Name:York Mo

Approved by:

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Name: King kong Jin

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Name: Jimmy Zhou

Approved by:

Name: Jeff Zhu

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## 1.Test Overview

k Aupo	Test Items	Test Standard	Conclusion
o <sup>tek</sup> 3.1	Visual Inspection	EN 50155:2021	Pass
Ant 3.2	Performance Test	EN 50155:2021	notek Pass no
3.3	Insulation test	EN 50155:2021	Anbore <sup>N</sup> Pass
3.4	Low temperature start-up test	EN 50155:2021	Pass
3.5	Dry Heat Test	EN 50155:2021	Pass
3.6	Cyclic Damp Heat Test	EN 50155:2021	Pass
3.70 rek	Functional Random Vibration Test	EN 50155:2021	Pass
3.8 nbote	Simulated Long Life Test	EN 50155:2021	Pass
1.0 <sup>k</sup> 3.9 kg	Shock Test	EN 50155:2021	Pass
nbotek 4.1	DC Power Supply Test	EN 50155:2021	Pass

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## 2.Test Environment

Ambient temperature: 15 °C ~35 °C

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Relative humidity: 25%RH ~ 75%RH

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Atmospheric pressure: 86kpa ~ 106kpa

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## 3. Reliability Test

## 3.1 Visual Inspection

## 3.1.1 Judgement basis

Test standard: EN 50155:2021

Sample NO.: 1819C400624131-1-1-1

Sample status: Non-Operating

### 3.1.2 Judgement basis

1. The sample shell should be flat, smooth, clean, and free of scratches, rust, and stains; The edges and corners should be free of defects such as burrs and burrs.

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- 2. The surface color of the sample should be uniform, and the surface coating and coating should not have bubbles, cracks, peeling, or mechanical damage.
  - 3.All components should be securely fastened without any looseness.
  - 4. The identification should be clear and durable.

## 3.1.3 Test result

- 1. The sample shell is flat, smooth, clean, without scratches, rust spots, or stains; The edges and corners are free of defects such as burrs and flying edges.
- 2. The surface color of the sample is uniform, and the surface coating and coating do not bubble, crack, peel off, or suffer mechanical damage.
  - 3.All components are securely fastened without any looseness.
  - 4.Clear and durable identification.

### 3.1.4 Test conclusion

**Pass** 

#### 3.1.5 Test photos



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## 3.2 Performance Test

### 3.2.1 Test requirements

Test standard: EN 50155:2021

Sample NO.: 1819C400624131-1-1-1

Sample status: Operating

## 3.2.2 Judgement basis

After being powered on, the sample can work normally.

# 3.2.3 Test result

After being powered on, the sample can work normally.

### 3.2.4 Test conclusion

Pass

#### 3.2.5 Test photos

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## 3.3 Insulation Test

## 3.3.1 Test Requirements

Test Standard: EN 50155:2021

Sample NO.: 1819C400624131-1-1-1

Sample Status: Non-Operating

Test Conditions:

1. Insulation resistance test:

Test voltage: DC 500V
Test time: 1 minute

2. During the test, the equipment cannot be energized.

3. Voltage withstand test:

Test voltage: AC 1500V Test time: 1 minute

## 3.3.2 Test Equipment

Equipment Name	Equipment No.	Equipment Model	Equipment Cal validity Period
Insulation Resistance Tester	SE-4352	YD9820A	2025.5.5
Withstand Voltage Tester	SE-4351	125B	2025.5.5

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## 3.3.3 Judgement Basis

- 1. The resistance value after insulation resistance test should be greater than 20M  $\Omega$ .
- 2. Destructive discharge and flashover should not occur during the withstand voltage test.
- 3. After testing, the sample works normally when powered on.

#### 3.3.4 Test Result

Test Number	Anbo Anbrek	est project	<i>Vupolek</i>	测试结果	Anno abol
otek 1 Anbore	Variabotek Vi	Before voltage withsta	and test	1.747GΩ	V.,
Anbotek 2 Anb	Insulation resistance	After withstand voltag	ge test	1.755GΩ	ek
Aupolen	The withstand voltage	test has no destructive o	discharge or fla	ashover.	hotek

## 3.3.5 Test Conclusion

Pass



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## 3.3.6 Test Photos

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Insulation resistance test - before withstand voltage test



Voltage withstand test Anbotek



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Insulation resistance test - after withstand voltage test

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Code:AB-AR-01-e





## 3.4 Low temperature start-up test

## 3.4.1 Test requirements

Test standard: EN 50155:2021

Sample NO.: 1819C400624131-1-1-1

- 1.Test temperature: 25°C;
- 2.Test time: 2.5 hours;
- 3.Temperature change rate: 1°C / min;
- 4.After being stored at low temperature for 2 hours, the sample was powered on and operated continuously for 0.5 hours at low temperature. Then cut off the power and the temperature returned to normal.

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5. See the figure below for details:

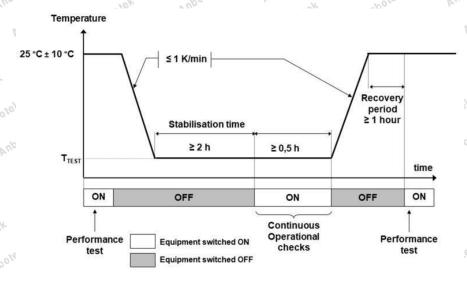


Figure 13 — Low temperature test

#### 3.4.2 Test equipment

Equipment Name	Equipment No.	Equipment model	Equipment Cal validity period
Temperature & humidity chamber	SE-3054	ZJ-HWHS1000B	2025.6.16

#### 3.4.3 Judgement basis

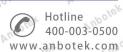
The sample works normally when powered on during testing. After testing, the appearance of the sample showed no bubbles, deformation, or cracking, the structure was normal, and it worked normally after being powered on.

#### 3.4.4 Test result

The sample works normally when powered on during testing. After testing, the appearance of the sample showed no bubbles, deformation, or cracking, the structure was normal, and it worked normally after being powered on.

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## 3.4.5 Test conclusion Pass

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## 3.4.6 Test photos

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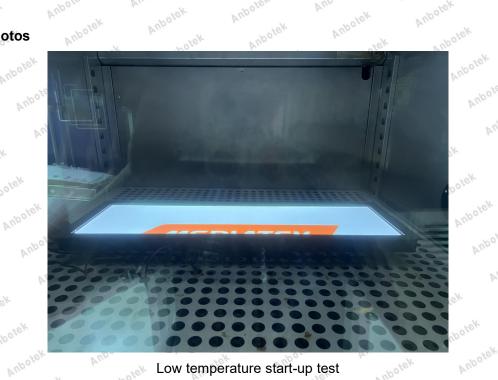
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Low temperature start-up test



Low temperature start-up test

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## 3.5 Dry Heat Test

## 3.5.1 Test requirements

Test standard: EN 50155:2021

Sample NO: 1819C400624131-1-1-1

Test conditions:

1. Raise the temperature from room temperature to 70 °C at a rate of 1 °C/min, stabilize for 2 hours, then turn on the equipment for operation inspection and continue working for 6 hours. Then, raise the temperature to 85 °C at a rate of 1 °C/min and maintain it for 10 minutes to perform performance testing in this environment.

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- 2. Then turn off the device and cool it down to ambient temperature at a rate of 1 °C/min for 1 hour before conducting further performance testing.
- 3. Please refer to the following figure for details:

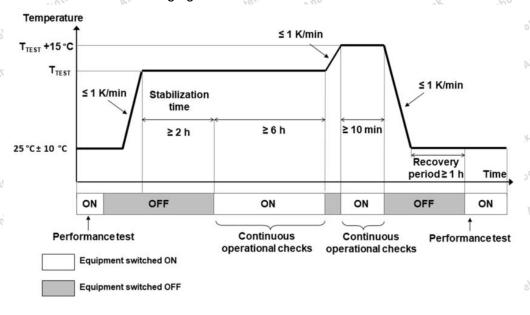


Figure 15 — Dry heat thermal test — Cycle B

## 3.5.2 Test equipment

Equipment Name	Equipment No.	Equipment model	Equipment Cal validity period
Temperature & humidity chamber	SE-3054	ZJ-HWHS1000B	2025.6.16

#### 3.5.3 Judgement basis

The sample works normally when powered on during testing. After testing, the appearance of the sample showed no bubbles, deformation, or cracking, the structure was normal, and it worked normally after being powered on.

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#### 3.5.4 Test result

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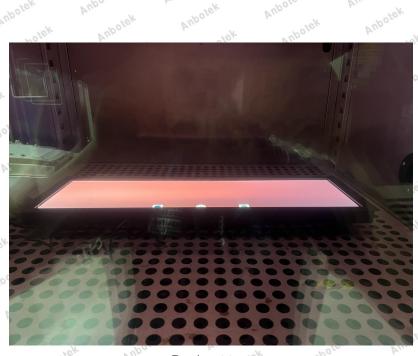
The sample works normally when powered on during testing. After testing, the appearance of the sample showed no bubbles, deformation, or cracking, the structure was normal, and it worked normally after being powered on.

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## 3.5.5 Test conclusion

Pass

## 3.5.6 Test photos



Dry heat test



Dry heat test

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Dry heat test

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Address: Zone South, 1/F., Building 2, Hengchangrong High-Tech Industrial Park, Huangtian, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755-26066440 Email: service@anbotek.com



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## 3.6 Cyclic Damp Heat Test

## 3.6.1 Test requirements

Test standard: EN 50155:2021

Sample NO.: 1819C400624131-1-1-1

Sample status: Operating

Test conditions: Non-Operating

The tested sample shall not be powered outside during performance inspection

Temperature: 55  $^{\circ}$ C and 25  $^{\circ}$ C. Number of cycles: 2 cycles. Testing time: 2 × 24 hours.

Temperature change rate: ≤ 1 °C/min.

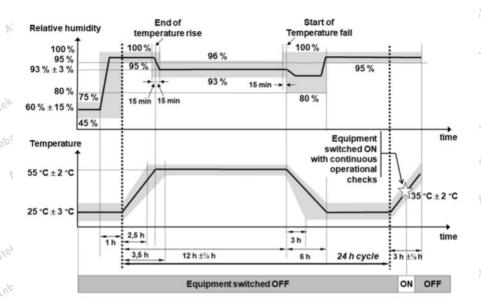
Intermediate measurement: An operational check should be performed when the temperature

Report No.:1819C40062413102

rises at the beginning of the second cycle.

Insulation resistance test: DC 500V, test time: 1 minute. Voltage withstand test: AC 1500V, test time: 1 minute.

Please refer to the following figure for details:





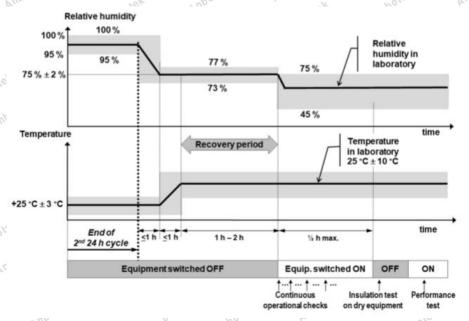
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## 3.6.2 Test equipment

Equipment Name	Equipment No.	Equipment model	Equipment Cal validity period
Insulation Resistance Tester	SE-4352	YD9820A	2025.5.5
Voltage withstand tester	SE-4351	Anbore 125B Anbore	2025.5.5
Temperature & humidity chamber	SE-3054	ZJ-HWHS1000B	2025.6.16
3. Judgement basis Anbotek	upolek Aupo	ek Aupotek	Anbore Anbor

### 3.6.3 Judgement basis

- 1.The resistance value after insulation resistance test should be greater than 20M  $\Omega_{\star}$
- 2. Destructive discharge and flashover should not occur during the withstand voltage test.
- 3. After testing, the sample works normally when powered on.

## 3.6.4 Test result

Test Nun	mber	Test project	upo solek	Aupolek	Test result	Anbo
otek Ani	Anbolek	Insulation Resistance	Aup	Jek Vupo	2.28GΩ	P,
Ando hotek 2	Anbotek	Voltage Withstand Test		Leaka	age current:0.73m	Arek
VII.	The v	vithstand voltage test has no	destru	ctive discharge	e or flashover.	Aupore

## 3.6.5 Test Conclusion

Pass

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## 3.6.6 Test photos

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Report No.:1819C40062413102

Cyclic damp heat test



Cyclic damp heat test

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Cyclic damp heat test



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## 3.7 Functional Random Vibration Test

## 3.7.1 Test requirements

Test standard: EN 50155:2021

Sample NO.: 1819C400624131-1-1-1

Sample status: Operating

Test conditions:

T		O. N.	No. Vila
Classification	Direction	RMS(m/s²)	Frequency
or Andorek	Vertical	And Anbote	Aupo
Category 1  Class B	Horizontal	0.45	5Hz ~ 150Hz
Aug Polek V	Longitudinal	0.7	Alpote, ok Aug pote
Test time	Anborek Anbo	30 min per directio	n Aupore Au

Report No.:1819C40062413102

## 3.7.2 Test equipment

Equipment Name	Equipment No.	Equipment model	Equipment Cal validity period
Vibration tester	SE-4730	DC-2200-26	2024.11.14
Vibration tester	SE-1199	DC-2200-26	2024.11.2
DC power supply	SE-4471	YF-66002PR	2025.5.5

## 3.7.3 Judgement basis

- 1. During the experiment, the sample can function normally.
- 2. After the experiment, the appearance of the sample is normal and the functional structure is normal.

### 3.7.4 Test result

- 1. During the experiment, the sample can function normally.
- 2. After the experiment, the appearance of the sample is normal and the functional structure is normal.

### 3.7.5 Test conclusion

Pass



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## 3.7.6 Test photos

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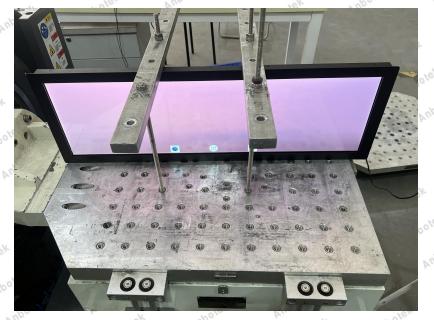
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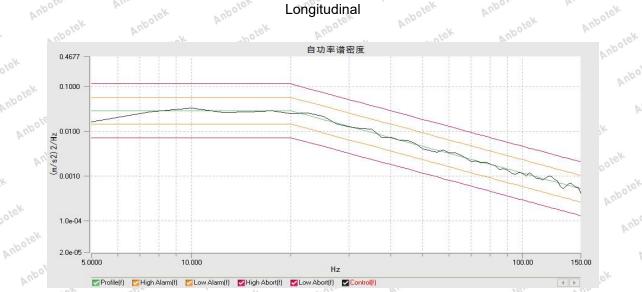
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Longitudinal



Spectrogram (Vertical)

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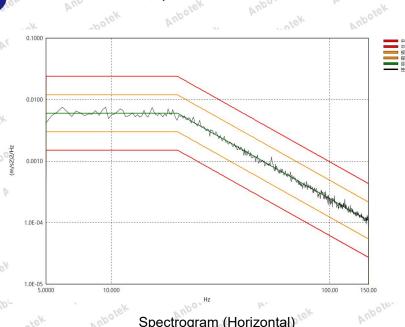
Report No.:1819C40062413102

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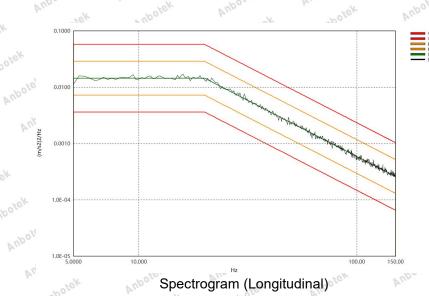
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## Spectrogram (Horizontal)



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## 3.8 Simulated Long Life Test

## 3.8.1 Test requirements

Test standard: EN 50155:2021

Sample NO.: 1819C400624131-1-1-1

Sample status: Non-Operating

Test conditions:

P 00"	, y	b.	Tie.
Classification	Direction	RMS(m/s²)	Frequency
or Anborek	Vertical	notek 5.72 Anbotek	Aupo
Category 1 ClassB	Horizontal	2.55 Anbo	5Hz ~ 150Hz
Aup Polek Au	Longitudinal	3.96	Poster Vy Thosek
And	spotek Aupos	, otok	Aupole, VIII
Test time	VII. Ofek Vup	5 hours per direction	J. Wolek Aup

Report No.:1819C40062413102

#### 3.8.2 Test equipment

Equipment Name	Equipment No.	Equipment model	Equipment Cal validity period		
Vibration tester	SE-4730	DC-2200-26	2024.11.14		
Vibration tester	SE-1199	DC-2200-26	2024.11.2		
DC power supply	SE-4471	YF-66002PR	2025.5.5		

## 3.8.3 Judgement basis

After the experiment, the appearance and functional structure of the sample were normal.

#### 3.8.4 Test result

After the experiment, the appearance and functional structure of the sample were normal.

## 3.8.5 Test conclusion

Pass



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## 3.8.6 Test photos

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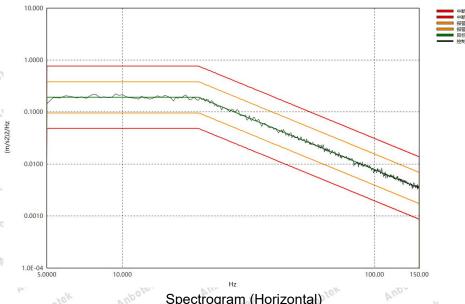


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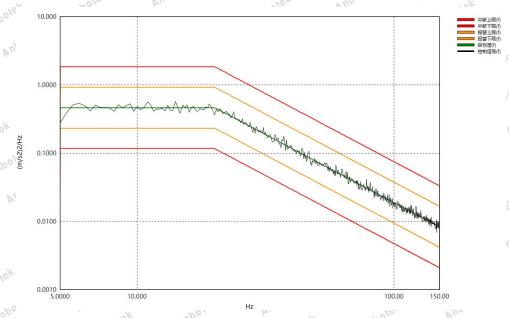
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Spectrogram (Horizontal)



Spectrogram (Longitudinal)

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## 3.9 Shock Test

## 3.9.1 Test requirements

Test standard: EN 50155:2021

Sample NO.: 1819C400624131-1-1-1

Sample status: Operating

Test conditions:

101	, V	O. b.	16,		
Classification	Direction	Acceleration(m/s²)	Pulse width(ms)		
"upor yek Vuporek	Vertical	And Andotek	And 30 tek		
Class B	Horizontal	nbot 30 Anbo	30 000		
Aug Crek	Longitudinal	50	hooter 30 hotek		
Test time	3 times	in each direction, 18 tir	nes in total		

Report No.:1819C40062413102

## 3.9.2 Test equipment

Equipment Name	Equipment No.	Equipment model	Equipment Cal validity period			
Vibration tester	SE-4730	DC-2200-26	2024.11.14			
Vibration tester	SE-1199	DC-2200-26	2024.11.2			
DC power supply	SE-4471	YF-66002PR	2025.5.5			

## 3.9.3 Judgement basis

- 1.During the experiment, the sample can function normally.
- 2. After the experiment, the appearance of the sample is normal and the functional structure is normal.

## 3.9.4 Test result

- 1.During the experiment, the sample can function normally.
- 2. After the experiment, the appearance of the sample is normal and the functional structure is normal.

### 3.9.5 Test conclusion

Pass



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## 3.9.6 Test photos

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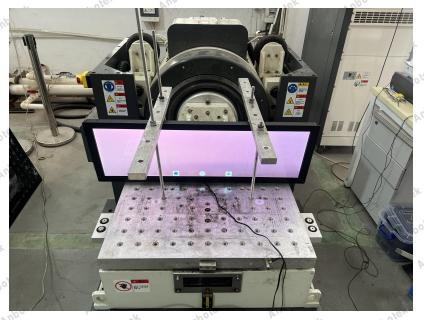
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Longitudinal



Spectrogram (+Vertical)



Spectrogram (-Vertical) Anbotek

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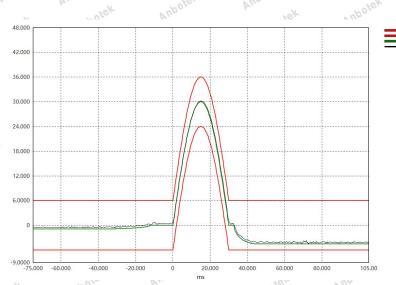
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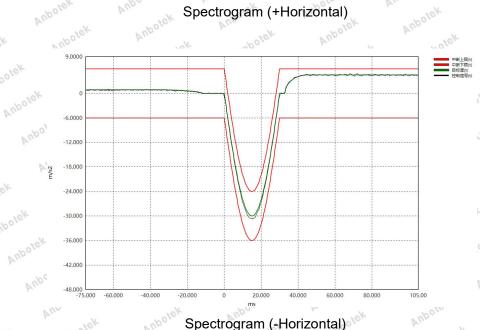
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Spectrogram (+Horizontal)



Spectrogram (-Horizontal)

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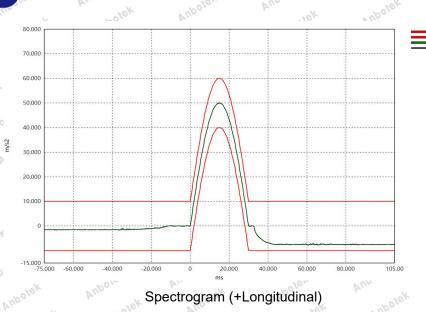
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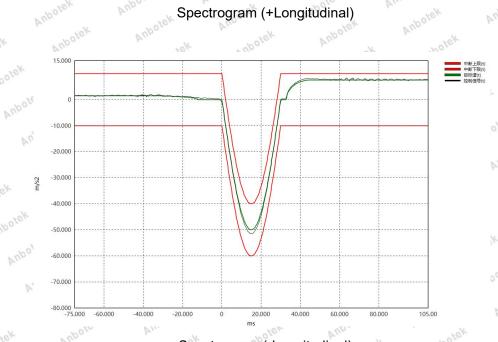
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Spectrogram (+Longitudinal)



Spectrogram (-Longitudinal)

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## 4.EMC Test

## 4.1 DC Power Supply Test

## 4.1.1 Test Specification

	Test Standard:	EN 50155:2021	ь.	'Un	"Upotek	Ande	,
7/	rest Standard.	214 30 133.202 1	rek	V upor	W.	poler	VUC

Report No.:1819C40062413102

Aupores, Augustak	Ando	otek Aupore	V. OFEK
Designation	Limit Andord	Duration	Performance Criterion
Minimum temporary supply undervoltage	0,6 Un	<0,1s	hotek A Anboten
Minimum continuous voltage	0,7 Un	Anbore A	Polek Vupor
Nominal voltage	un upor	Parmanent K	And hotek An
Rated voltage	1,15 Un	Permanent	Aug A
Maximum continuous voltage	1,25 Un	abotek Anbotes	Ann
Maximum temporary supply overvoltage	1,4 Un	≤ 0,1s	Ann Otek
Maximum temporary supply overvoltage	1,4 Un	≤ 1,0s	Anboten B Anb
Supply change-over	nbotek 0 Un Anbotes	≤ 0.03	Anborek B Anb
Interruptions of supply voltage	nbot 0 Un knoo	≤0.01s	Anboka A
Interruptions of supply voltage	0 Un	>0.01s	- ACotek
	12/ .	16. 10	- /

**Remark:** The system integrator should define the supply voltage interruption class. Unless otherwise specified, the requirements of class S2 apply.

## 4.1.2 Test Equipment

## □ DC Power Supply Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PROGRAMMABLE AC/DC POWER	ek NEOokek	KP3000GS	9271106	Jan. 18, 2024	1 Year

## 4.1.3 Test Results

**PASS** 

Please refer to the following page.



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## DC Power Supply Test Results

Test Result:	Anbore	$\boxtimes$	Pass	Fail	An	Tempera	ture:		<b>24.4</b> ℃	P.	ipo, otek
Power Supply:	Aup.	DC	12V	Aupolek		Humidity	Vi.		54%	rek.	Aupore
Potek Vupc	1	74.	rek	Vupor,	Sk	AUP	ok abo	cek	Anb	0,-	b.
Testing Voltage	Duration	(s)	VUD.	al time(s)	<sup>botek</sup> Re	petitions	performance criterion	e ore	ek ek	Result	ie <sub>k</sub> Vu
0.7Un	60el		Anb	of Ch	Anber	100/EK	Aupotek A	pr	⊠A	□В	, NOTE
1.25Un	60.		V	Anbo.	β.	Anbotek	Anboke.		⊠A	В	P.C. Fek
1.4Un	o <sup>vek</sup> 0.1	Aupor	rek	10 Anbo	ek	10 Anbotek	A A	yek.	⊠A	B	□ C,upo,
1.4Un	Anbotek 1	An	, abote	×10	<i>upotek</i>	10 Anb	wotek B	Anbo'	⊠A	P B	C
0.6Un	0.1	K	Anl	10	Anbo	10	AnboreA	P.	⊠A	□B	□,C
0Un	0.01 and	0.02		10°16k	P	10 tek	Andrek	6	⊠A	В	Cotek
0Un	0.03	Anbo		10 <sup>Anbo</sup>	lek.	10 Anbore	B.nbores	rek	⊠A	B	CAnbc
0Un	Anbore 0.01	P.	No len	10	nbotek	10 An	otek A Aut	anb <sup>o</sup>	⊠A	₽ B	C D
0Un	>0.01	ek-	Anbar	10	Anb	10	Anbo. C	k.	⊠A	$\square B^{\mathbb{N}}$	C
k Anbotek	Aupo,	rek	. P.	V 1.1 m		C 12V	Aurabolek		Aupolek	V	Vuos Polek
Note: N/A	ek V	odn.	) iek	Anbore	k	Auporg	sk Aupore	alk .	Anbo	ter	Anb

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## 4.2 EMS Performance Criteria

#### Performance criterion A

The EUT shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the EUT is used as intended. If the performance level is not specified by the manufacturer, this may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.

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#### Performance criterion B

The EUT shall continue 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 EUT is used as intended. The performance level may be replaced by a permissible loss of performance. However, during the test degradation of performance is allowed but no change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, either of these may be derived from the product description and and what the user may reasonably expect from the equipment if used as intended.

#### Performance criterion C

Ternporary loss of function is allowed during the test. provided the function is self-recoverable or can be restored by the operation of the controls.

If. as a result of the application of the tests defined in this standard, the EUT becomes dangerous or unsafe, it shall be deemed to have failed the test.

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## APPENDIX I -- TEST SETUP PHOTOGRAPH

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Photo of DC Power Supply Test

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# APPENDIX II -- Photo documentation

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