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# Shenzhen ORT Technical Services Co., Ltd. TEST REPORT

	TRI	Report N ORTSZ2410		High the the second	
Sample Name:	Smartphone		Applicant:	Shenzhen H Technology	
Model:	KINGKONG )	( PRO	Address:	Building 1, 0 Technology Jiaxian Roa Community,	6/F, Block A, Ganfeng Building, No. 993 d, Xiangjiaotang Bantian Street, District, Shenzhen
Spec:	Black		Vendor or Supplier:	Shenzhen H Technology	
Brand:	сивот		Address:	The same as	s above
Sample Quantity	y: 6 Pcs	(a)	Manufacturer:	Shenzhen H Technology	
Specimen Source	ce: Submitted by	Submitted by applicant		The same as above	
Received Date:	2024.10.20	Detection Date:	2024.10.21~ 2024.10.25	Report Date:	2024.10.28
Test Requireme	nt: For further d	etails, please re	fer to the followin	ıg page(s).	
Test Item:			3.IP6X Test; 4.IPX nperature and Sh	All Line at his	tion Test;
Decision Rules:	For further d	er details, please refer to the following page(s).			
Test Conclusion	: PASS/Details	see the summa	ry of test results	on the next pa	age.
Tested By:	Li WenFeng	Date:			
Signature:	Li wenfeng	2024-10-28	Hill Control		
Checked By:	Lonny Chen	Date:		Haritage Haritage	
Signature:	Lonny Chon	2024-10-28	Shenzhen ORT Technical S		Services Co., Ltd
Approved By:	Makoto. Wu	Date:	A STATE OF THE STA	2024-10-28	
Signature:	Makoto. Wu	2024 40 28		St. P. H.	
Note: /			1	UK,	



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# 1.Sample information

Name	Model	Quantity	Sample No.
Smartphone	KINGKONG X PRO	6 Pcs	1#~6#

# 2.Summary of test results

No	Toot report	Test item	Sa	ample test results	
No.	Test record	rest item	PASS	FAIL	N/A
1	Page 3 of this report	IPX9K Test	PASS	1	1
2	Page 3 of this report	IP6KX Test	PASS	Walter Hard Bridge	1
3	Page 4 of this report	IP6X Test	PASS	OPET I	1
4	Page 5 of this report	IPX8 Test	PASS	1	J. John
5	Page 6 of this report	Vibration Test	PASS	/	/
6	Page 6 of this report	Drop Test	PASS	1	1
7	Page 7 of this report	Combined Temperature and Shock Test	PASS	A Section of the sect	1

Note:1. "PASS" means Conformity Rule, "FAIL" means Nonconformity Rule, and "N/A" means Not Applicable.

2. When customers have no Decision Rule requirements for Test setup, P.T.O For test records and test results.



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#### **II Test Records**

1 Test Item: IPX9K Test

# 1.1 Test Equipment:

No.	Name	Model No.	Equipment No.	Calibration Validity
1	High Temperature and High Pressure Jet Test Machine	TL-IPX9K-1000L	ORT-GYPS-01	2025.06.18

**1.2 Test Environment:** Temperature: 23.1°C; Relative Humidity: 59%.

1.3 Test Method/Specification: According to ISO 20653:2023.

#### 1.4 Test Conditions:

Rotation speed:  $(5\pm1)$  r/min; Spraying angle:  $0^\circ, 30^\circ, 60^\circ, 90^\circ;$  The distance from nozzle to enclosure surface:  $100 \text{ mm} \sim 150 \text{ mm};$  Water flow rate:  $(14\sim16)$  L/min; Water temperature:  $(80\pm5)^\circ\mathbb{C};$  Duration: 30 s/Position.

## 1.5 Acceptance Criteria:

Directional spray cleaning of the shell in any direction should not cause any damage.

#### 1.6 Test Result:

Sample No.	Inspection after test	Conclusion
1#	The appearance of the sample has no visible damage, the startup function is normal, and there is no water inside.	Pass

#### 2 Test Item: IP6KX Test

# 2.1 Test Equipment:

No.	Name	Model No.	Equipment No.	Calibration Validity
1	Sand and Dust Test Chamber	TL-SC-1000	ORT-SC1000-01	2025.06.19
2	IP4X Test Probe	IP4X/1N Thrust	ORT-IP4X-01	2025.06.22

2.2 Test Environment: Temperature: 23.2°C; Relative Humidity: 60%.

2.3 Test Method/Specification: According to ISO 20653:2023.

# 2.4 Test Conditions:

- 1) The level of protection indicated by the first characteristic for approaching hazardous components Number, first characteristic number 6 K 1.0mmΦ The test line should not be pierced and sufficient clearance should be maintained.
- 2) Protection against solid foreign objects represented by the first characteristic number and the first characteristic number 6 K.



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Mode dust movement: Air and dust mixing exercise for 6 s, pause for 15min

Test duration: 20 cycles

## 2.5 Acceptance Criteria:

After the test, the sample functions normally, and after disassembly and inspection, there is no dust inside.

#### 2.6 Test Result:

Sample No.	Inspection after test	Conclusion
2#	The appearance of the sample has no visible damage, the startup function is	Pass
Z#	normal, and there is no dust inside.	Fa55

3 Test Item: IP6X Test

## 3.1 Test Equipment:

No.	Name	Model No.	Equipment No.	Calibration Validity
1	Sand and Dust Test Chamber	TL-SC-1000	ORT-SC1000-01	2025.06.19
2	IP4X Test Probe	IP4X/1N Thrust	ORT-IP4X-01	2025.06.22

**3.2 Test Environment:** Temperature: 23.5 °C; Relative Humidity: 59%.

3.3 Test Method/Specification: According to IEC 60529:1989/AMD2:2013/COR1:2019.

## 3.4 Test Conditions:

1) Degrees of protection against access to hazardous parts:

The test wire of Φ1.0mm shall not penetrate and adequate clearance shall be kept.

- 2) Degrees of protection against solid foreign objects:
  - 2.1 During the experiment, the dosage of talc powder was 2 kg/m³, And test for 8 hours.
  - 2.2 The enclosure under test is supported inside the test chamber and the pressure inside the enclosure is maintained below the surrounding atmospheric pressure by a vacuum pump. A volume of air 80 times the volume of the sample enclosure, the extraction rate of 40 volumes per hour, and test 2 hours.

#### 3.5 Acceptance Criteria:

After the test, the sample functions normally, and after disassembly and inspection, there is no dust inside.

# 3.6 Test Result:

Sample No.	Inspection after test	Conclusion
3#	The appearance of the sample has no visible damage, the startup function is	Pass
$5\pi$	normal, and there is no dust inside.	F 433



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4 Test Item: IPX8 Test

## 4.1 Test Equipment:

No.	Name	Model No.	Equipment No.	Calibration Validity
1	Water Immersion Pressure Tester	TL-IPX8-600	ORT-IPX8-01	2025.06.18

**4.2 Test Environment:** Temperature: 23.5 °C; Relative Humidity: 61%.

4.3 Test Method/Specification: According to IEC 60529:1989/AMD2:2013/COR1:2019.

#### 4.4 Test Conditions:

1) Put the sample into the test device;

2) Depth: 1.5 m; Test duration: 30 min;

3) The temperature difference between the water and the sample is no more than 5 K.

## 4.5 Acceptance Criteria:

- 1. After testing, check the functionality of the sample and whether there is water ingress inside the casing;
- 2. Continuous immersion in water, if water enters, the amount of water entering the casing should not cause damage to the product.

## 4.6 Test Result:

Sample No.	Inspection after test	Conclusion
4#	The appearance of the sample has no visible damage, the startup function is normal, and there is no water inside.	Pass

5 Test Item: Vibration Test

## 5.1 Test Equipment:

No.	Name	Model No.	Equipment No.	Calibration Validity
1	Vibration Tester	MPA406/M232A	ORTZD2000-01	2025.06.18

**5.2 Test Environment:** Temperature: 23.6°C; Relative Humidity: 59%.

**5.3 Test Method/Specification:** According to client's requirements.

## 5.4 Test Conditions:

3.3				
Frequency (Hz)	Acceleration (g)	Displacement (mm)	Test axis	Test time
5∼14	H. H. Harden I	5.08		
14~33	2	The state of the s	V V Z ovio	2 h/2vi2
33~52	1	0.91	X, Y, Z axis	2 h/axis
52~500	5	1	ORTION OF THE PROPERTY.	The latest the same of the sam

5.5 Acceptance Criteria: After the test, the appearance of the sample is normal and the function is normal.



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#### 5.6 Test Result:

Sample No.	Inspection after test	Conclusion	
5#	The appearance of the sample is not visible damage, the startup function is	Pass	
<i>№</i> 5#	normal, and the internal structure is not damaged.	1 455	

6 Test Item: Drop Test

# 6.1 Test Equipment:

No.	Name	Model No.	Equipment No.	Calibration Validity
1	Drop Tester	LX-DL-315	ORT-DL-01	2025.06.18

**6.2 Test Environment:** Temperature: 23.7°C; Relative Humidity: 59%.

6.3 Test Method/Specification: According to MIL-STD-810H:2019, Method 516.8.

## 6.4 Test Conditions:

Height of drop: 122 cm

Orientation of drop: 6 faces, 8 corners, 12 edges.

Number of drop: 1 times/orientation, totally 26 times.

Note: Testing with a total mass M<45 Kg is allowed on both test samples.

5# sample for the drop of corners and faces (14 times in total); 6# sample for the drop of edge (12 times in total).

6.5 Acceptance Criteria: After testing, the sample is inspected for appearance and function.

# 6.6 Test Result:

Sample No.	Inspection after test	Conclusion
5#、6#	The appearance of the sample is not visible damage, the startup function is	Pass
3#1 0#	normal, and the internal structure is not damaged.	rass V

7 Test Item: Combined Temperature and Shock Test

# 7.1 Test Equipment:

				11117
No.	Name	Model No.	Equipment No.	Calibration Validity
1	Rapid Temperature Chang Test Chamber	TH15-1000DHVB	ORTKWB1000-01	2025.06.19
2	Vibration Tester	MPA406/M232A	ORTZD2000-01	2025.06.18

**7.2 Test Environment:** Temperature: 25.5°C; Relative Humidity: 59%.

7.3 Test Method/Specification: According to client's requirements.

### 7.4 Test Conditions:



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Shock Test Parameter		Temperature Test Parameter
Pulse Shape:	Half Sine	•
Peak Acceleration:	30 g	
Pulse Duration:	6 ms	<b>-55℃, 70℃</b> .
Test Orientation:	±X, ±Y, ±Z axis	
Test Time:	2 times/axis, 12 times in total.	The House of the State of the S
Note: the sample should stay in the test chamber for 30 min after the shock test, then take out and check		

7.5 Acceptance Criteria: After testing, the sample is inspected for appearance and function.

# 7.6 Test Result:

Sample No.	Inspection after test	Conclusion	
6#	The appearance of the sample is not visible damage, the startup function is	Pass	
0#	normal, and the internal structure is not damaged.	F 455	



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# III Test photo and test curve:

Test Item 1: IPX9K test (1#)



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Fig.5 Power on inspection after test

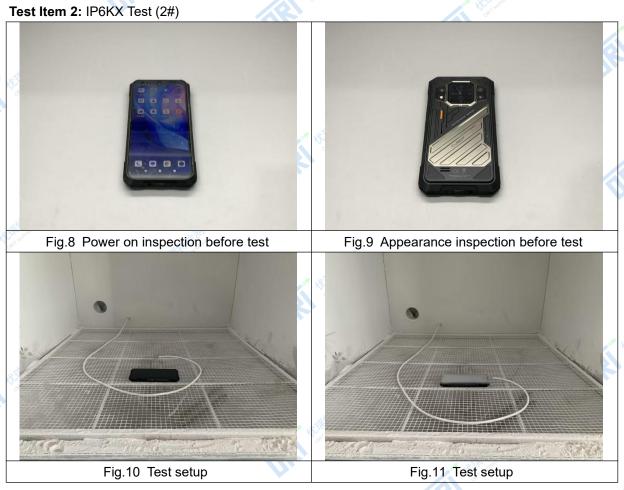
Fig.6 Appearance inspection after test



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And Application

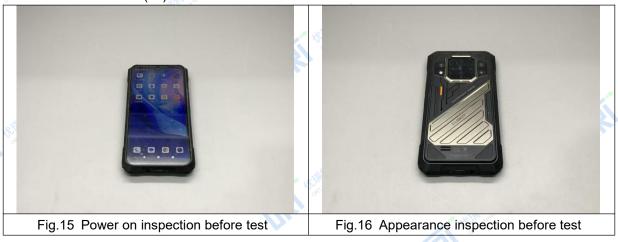




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# Test Item 3: IP6X Test (3#)





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Fig.21 Appearance inspection after test



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Test Item 4: IPX8 Test (4#)



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Fig.26 Power on inspection after test

Fig.27 Appearance inspection after test



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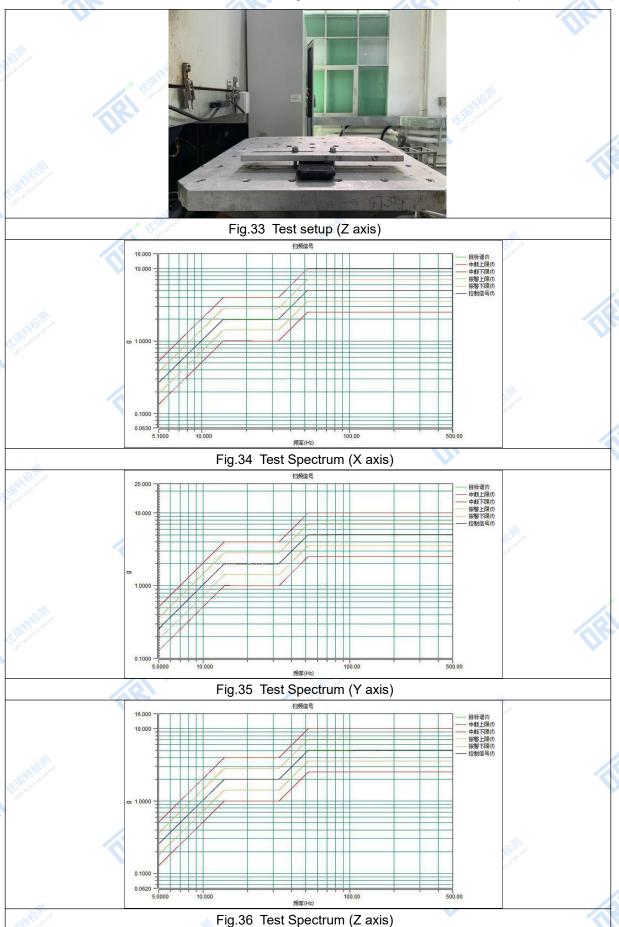
Fig.28 Appearance inspection after test

# Test Item 5: Vibration Test (5#)





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Test Item 6: Drop Test (5#, 6#)





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Fig.42 Test setup- Face (1) - 5#



Fig.43 Test setup- Face (2) - 5#



Fig.44 Test setup- Face (3) - 5#



Fig.45 Test setup- Face (4) - 5#

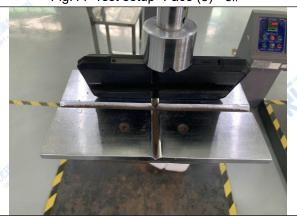


Fig.46 Test setup- Face (5) - 5#



Fig.47 Test setup- Face (6) - 5#

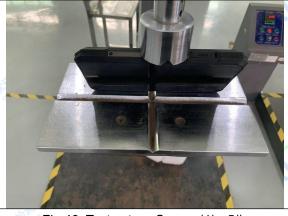


Fig.48 Test setup- Corner (1) - 5#



Fig.49 Test setup- Corner (2) - 5#



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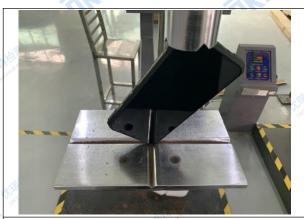


Fig.50 Test setup- Corner (3) - 5#



Fig.51 Test setup- Corner (4) - 5#

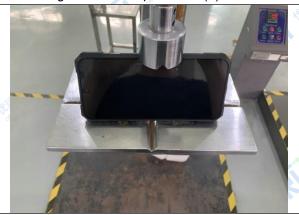


Fig.52 Test setup- Corner (5) - 5#

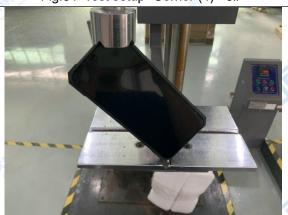


Fig.53 Test setup- Corner (6) - 5#

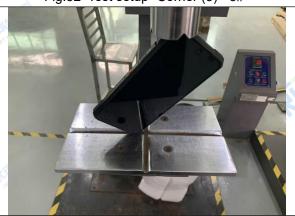


Fig.54 Test setup- Corner (7) - 5#

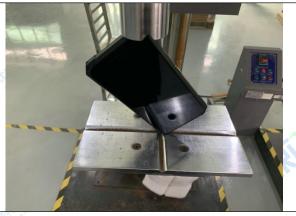


Fig.55 Test setup- Corner (8) - 5#

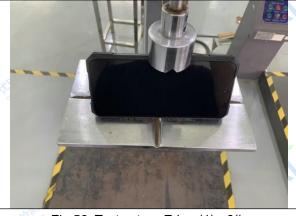


Fig.56 Test setup- Edge (1) - 6#

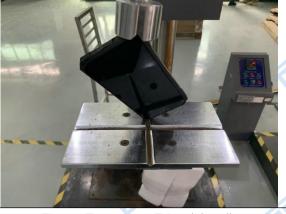


Fig.57 Test setup- Edge (2) - 6#



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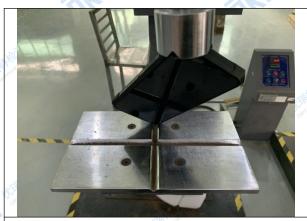


Fig.58 Test setup- Edge (3) - 6#



Fig.59 Test setup- Edge (4) - 6#

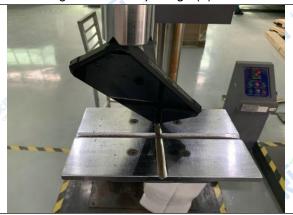


Fig.60 Test setup- Edge (5) - 6#



Fig.61 Test setup- Edge (6) - 6#



Fig.62 Test setup- Edge (7) - 6#



Fig.63 Test setup- Edge (8) - 6#



Fig.64 Test setup- Edge (9) - 6#



Fig.65 Test setup- Edge (10) - 6#



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Fig.66 Test setup- Edge (11) - 6#

Fig.67 Test setup- Edge (12) - 6#





Fig.68 Power on inspection after test

Fig.69 Appearance inspection after test



Fig.70 Appearance inspection after test



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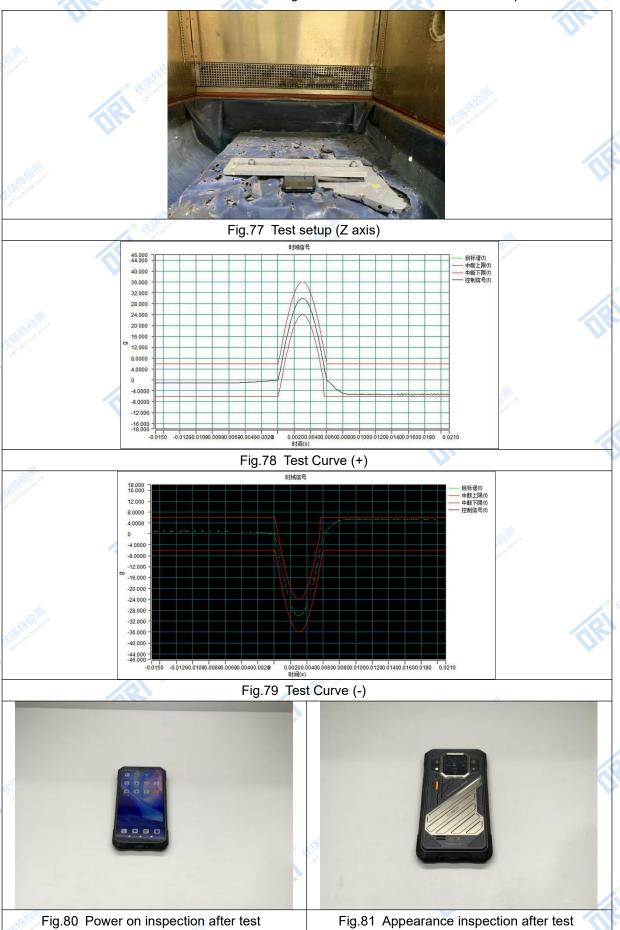


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Fig.76 Test setup (Y axis)



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Fig.82 Appearance inspection after test

\*\*\* End of Report \*\*\*