

TEST REPORT

Report No.: **SZ1230223-08073E**

Date: March 27, 2023

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Shenzhen Huafurui Technology Co., Ltd

Unit 1401 & 1402, 14/F, Jinqi Zhigu Mansion (No.4 Building of Chongwen Garden), Crossing of the Liuxian Street and Tangling Road, Taoyuan Street, Nanshan District, Shenzhen, P.R. China

Report on the submitted samples said to be:

Sample Description: Smart Watch
Style/Item No.: C21
Brand: CUBOT
Country of Origin: China
Sample Receiving Date: February 23,2023
Testing Period: February 23,2023 - March 02,2023
Result: **Please refer to next page(s).**

Signed for and on behalf of

BACL

Queenie Lee

Checked by: _____
Queenie Lee

Len Xie

Approved by: _____
Len Xie



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Summary of Test Result:

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CONCLUSION

A RoHS Directive 2011/65/EU and amendment directives (EU) 2015/863 on Lead,Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs, Phthalates(DBP, BBP,DEHP, DIBP) content

A.1 XRF screening test

Pass

A.2 Wet Chemical Testing

A.2.1 Chromium VI (CrVI) content

Pass

A.3 Phthalates(DBP, BBP, DEHP, DIBP)content

Pass

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A RoHS Directive 2011/65/EU and amendment directives (EU) 2015/863 on Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs, Phthalates (DBP, BBP, DEHP, DIBP) content

A.1 XRF screening test

Test method: IEC 62321-3-1:2013

Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(1)	Silvery metal(shell, USB plug, power line)	BL	BL	BL	BL	---
(2)	Silvery/golden metal(pin, USB plug, power line)	BL	BL	BL	BL	---
(3)	White plastic(pin holder, USB plug, power line)	BL	BL	BL	BL	BL
(4)	Silvery solder(pin, USB plug, power line)	BL	BL	BL	BL	---
(5)	Translucent soft plastic(inner, USB plug, power line)	BL	BL	BL	BL	BL
(6)	Black PVC(shell, USB plug, power line)	BL	BL	BL	BL	BL
(7)	Black PVC(cable jacket, power line)	BL	BL	BL	BL	BL
(8)	Black soft plastic(wire jacket, power line)	BL	BL	BL	BL	BL
(9)	Red soft plastic(wire jacket, power line)	BL	BL	BL	BL	BL
(10)	Coppery metal(wire, power line)	BL	BL	BL	BL	---
(11)	Black PVC(shell, power plug, power line)	BL	BL	BL	BL	BL
(12)	Black plastic(pin holder, power plug, power line)	BL	BL	BL	BL	BL
(13)*1	Golden metal(pin, power plug, power line)	OL (17795)	BL	BL	BL	---
(14)*1	Golden metal(pin tube, power plug, power line)	OL (11516)	BL	BL	BL	---
(15)	Golden metal(spring, pin tube, power plug, power line)	BL	BL	BL	BL	---
(16)	Silvery metal(magnet, power plug, power line)	BL	BL	BL	BL	---
(17)	Black soft plastic(belt, Smart Watch)	BL	BL	BL	BL	BL
(18)	Black soft plastic(belt sleeve, Smart Watch)	BL	BL	BL	BL	BL
(19)	Black metal(buckle, Smart Watch)	BL	BL	BL	BL	---
(20)	Silvery metal(axis, belt, Smart Watch)	BL	BL	BL	BL	---
(21)	Silvery metal(spring, axis, belt, Smart Watch)	BL	BL	BL	BL	---
(22)	Black plated silvery metal(screw, shell, Smart Watch)	BL	BL	BL	BL	---
(23)	Gunmetal metal(screw, PCB, Smart Watch)	BL	BL	BL	BL	---
(24)	Grey metal(button, Smart Watch)	BL	BL	BL	BL	---
(25)	Red metal(button, Smart Watch)	BL	BL	BL	BL	---
(26)	Silvery metal(spring, button, Smart Watch)	BL	BL	BL	BL	---

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Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(27)	Silvery metal(clip, button, Smart Watch)	BL	BL	BL	BL	---
(28)*	Grey metal(shell, Smart Watch)	BL	BL	BL	X	---
(29)	Black coated transparent glass(shell, Smart Watch)	BL	BL	BL	BL	BL
(30)	Black foam with adhesive(cover, Smart Watch)	BL	BL	BL	BL	BL
(31)	Golden/black FPC(LCD, Smart Watch)	BL	BL	BL	BL	BL
(32)	Silvery metal(cover, LCD, Smart Watch)	BL	BL	BL	BL	---
(33)	White plastic(frame, LCD, Smart Watch)	BL	BL	BL	BL	BL
(34)	Silvery plastic(film, LCD, Smart Watch)	BL	BL	BL	BL	BL
(35)	Transparent plastic(film, LCD, Smart Watch)	BL	BL	BL	BL	BL
(36)	Translucent plastic(film, LCD, Smart Watch)	BL	BL	BL	BL	BL
(37)	Translucent silvery plastic(film, LCD, Smart Watch)	BL	BL	BL	BL	BL
(38)	Black plastic with adhesive(tape, LCD, Smart Watch)	BL	BL	BL	BL	BL
(39)	Grey plastic(film, LCD, Smart Watch)	BL	BL	BL	BL	BL
(40)	Grey glass(LCD, Smart Watch)	BL	BL	BL	BL	BL
(41)	Red PVC(wire jacket, speaker, Smart Watch)	BL	BL	BL	BL	BL
(42)	Black PVC(wire jacket, speaker, Smart Watch)	BL	BL	BL	BL	BL
(43)	Silvery metal(wire, speaker, Smart Watch)	BL	BL	BL	BL	---
(44)	Black/silvery body(speaker, Smart Watch)	BL	BL	BL	BL	BL
(45)	Golden body(MIC, Smart Watch)	BL	BL	BL	BL	BL
(46)	White dry glue(MIC, Smart Watch)	BL	BL	BL	BL	BL
(47)	Silvery/black body(motor, Smart Watch)	BL	BL	BL	BL	BL
(48)	White printed black plastic(shell, Smart Watch)	BL	BL	BL	BL	BL
(49)	Black coated transparent plastic(shell, Smart Watch)	BL	BL	BL	BL	BL
(50)	Black foam with adhesive(pad, Smart Watch)	BL	BL	BL	BL	BL
(51)	Silvery metal(sheet, switch, LED FPC, Smart Watch)	BL	BL	BL	BL	---
(52)	Beige body(LED, LED FPC, Smart Watch)	BL	BL	BL	BL	BL
(53)	Bright black body(IC, LED FPC, Smart Watch)	BL	BL	BL	BL	BL
(54)	Brown body(SMD capacitor, LED FPC, Smart Watch)	BL	BL	BL	BL	BL
(55)	Silvery metal(base, LED FPC, Smart Watch)	BL	BL	BL	BL	---
(56)	White printed black FPC(LED FPC, Smart Watch)	BL	BL	BL	BL	BL
(57)	Black body(IC, PCB, Smart Watch)	BL	BL	BL	BL	BL

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Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(58)	Silvery body(crystal oscillator, PCB, Smart Watch)	BL	BL	BL	BL	BL
(59)	Black body(SMD triode, PCB, Smart Watch)	BL	BL	BL	BL	BL
(60)	Black body(inductor, PCB, Smart Watch)	BL	BL	BL	BL	BL
(61)	Black body(SMD diode, PCB, Smart Watch)	BL	BL	BL	BL	BL
(62)	Black body(SMD resistor, PCB, Smart Watch)	BL	BL	BL	BL	BL
(63)	Brown body(SMD capacitor, PCB, Smart Watch)	BL	BL	BL	BL	BL
(64)	Black plastic(cover, FPC socket, PCB, Smart Watch)	BL	BL	BL	BL	BL
(65)	Dark grey plastic(shell, FPC socket, PCB, Smart Watch)	BL	BL	BL	BL	BL
(66)	Golden metal(pin, FPC socket, PCB, Smart Watch)	BL	BL	BL	BL	---
(67)	Silvery solder(PCB, Smart Watch)	BL	BL	BL	BL	---
(68)	White printed blue coated beige plastic with coppery metal(PCB, Smart Watch)	BL	BL	BL	BL	BL

Note:

--- = Not Applicable.

* = Screening by XRF and detected by chemical method. The test result of chemical method please refer to next pages.

*1 = As claimed by the material declaration submitted by the client, the materials of the sample No. 13,14 are copper alloy. And according to RoHS directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.

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Remark:

i Result were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC62321-3-1:2013.

Element	Unit	Polymers	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ<X <130+3σ≤OL	BL≤70-3σ<X <130+3σ≤OL	BL≤50-3σ<X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ<X	BL≤700-3σ<X	BL≤500-3σ<X
Br	mg/kg	BL≤300-3σ<X	--	BL≤250-3σ<X

Note:

BL = Below Limit

OL = Over Limit

IN / X = Inconclusive (questionable, need further chemical analysis)

ii The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

iii The maximum permissible limit is quoted from the RoHS directive 2011/65/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

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A.2 Wet Chemical Testing

A.2.1 Chromium VI (CrVI) content

Chromium VI (CrVI) content(In metal)

Test method: IEC 62321-7-1:2015

Item	Unit	MDL	Result					Limit
			(28)					
hexavalent chromium(Cr VI)	µg/cm ²	0.10	N.D.					See Remark
Conclusion	/	/	Pass					/

Limit Remark:

- The sample is positive for CrVI if the CrVI concentration is greater than 0.13µg/cm². The sample coating is considered to contain CrVI
 - The sample is negative for CrVI if CrVI is ND (concentration less than 0.10µg/cm²). The coating is considered a non-CrVI based coating
 - The result between 0.10µg/cm² and 0.13µg/cm² is considered to be inconclusive -unavoidable coating variations may influence the determination
- For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

A.3 Phthalates(DBP, BBP, DEHP, DIBP)content

Test method: IEC 62321-8:2017

Item	Unit	MDL	Result						Limit
			(3)+(12)+(33)	(5)+(8)+(9)	(6)	(7)	(11)	(17)+(18)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(29)	(30)+(38)	(31)+(45)+(47)	(34)+(35)+(36)	(37)+(39)+(46)	(41)+(42)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Result				Limit
			(44)+(49)+(50)	(48)	(52)+(53)+(57)	(56)+(58)+(59)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result			Limit
			(60)+(61)	(64)+(65)	(68)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	/

Note:

- N.D.= Not Detected or less than MDL
- MDL = Method Detection Limit
- "+" = Composite testing.

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Photograph of Sample



BACL authenticate the photo on original report only

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Statement:

- 1.This report cannot be reproduced except in full, without prior written approval of the Company.
- 2.Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
- 3.This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
- 4.Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
- 5.The information which provided by the applicant, such as sample description, sample name, material component, style/item No. , P.O. No. , manufacturer, age phase, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.
- 6.The test samples were in good condition before testing.

*** End of Report ***