

TEST REPORT

Report No.: SZ1200604-07033A

Date: June 18, 2020

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Shenzhen Xin Yuan Electronic Technology Co, Ltd.

深圳市芯元电子科技有限公司

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Report on the submitted samples said to be:

委托检测的样品及申请者对样品的说明如下：

Sample Description: Electronic ink screen ESP32 development board

样品描述：电子墨水屏ESP32开发板

Style/Item No.: T5_2.3_2.13

型号：

Sample Receiving Date: June 05,2020

收样日期：2020年06月05日

Lately Re-submit Date: June 18,2020

最新送样时间：2020年06月18日

Testing Period: June 05,2020 - June 18,2020

测试周期：2020年06月05日 - 2020年06月18日

Result: **Pass**

测试结果：**合格**

Signed for and on behalf of BACL (BACL 授权签名)

Checked by:
审核:



May Chen

Approved by:
核准:



Lance Lee



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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

RoHS指令2011/65/EU及其修正指令(EU) 2015/863, 测试铅, 镉, 汞, 六价铬, 多溴联苯, 多溴二苯醚和邻苯(DBP, BBP, DEHP, DIBP)含量

A.1 XRF screening test

XRF筛选测试

Pass

合格

A.2 Wet Chemical Testing

湿化学测试

A.2.1 Chromium VI (CrVI) content

六价铬含量

Pass

合格

A.2.2 PBBs & PBDEs content

多溴联苯和多溴二苯醚含量

Pass

合格

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

邻苯(DBP, BBP, DEHP, DIBP)含量

Pass

合格

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Result:

测试结果:

Tested part(s):

测试部位:

- (1) Black PVC(wire jacket)
黑色PVC (线皮)
- (2) Red PVC(wire jacket)
红色PVC (线皮)
- (3) Silvery metal(wire)
银色金属 (线芯)
- (4) White plastic(terminal, wire jacket)
白色塑胶 (线皮连接)
- (5) Dumb white plastic(terminal, wire jacket)
哑白色塑胶 (线皮连接)
- (6) Silvery metal(pin, wire jacket)
银色金属 (线皮针脚)
- (7) Silvery metal(contact pin, terminal, wire jacket)
银色金属 (线皮连接的接触针)
- (8) Black plastic(connector plate)
黑色塑胶 (连接器)
- (9) Silvery metal(connector pin)
银色金属 (连接针)
- (10) Transparent double faced adhesive tape(holder, screen)
透明双面胶 (屏幕固定)
- (11) Black printed white paper with adhesive(sticker, screen)
黑色印白色纸袋粘性 (屏幕贴纸)
- (12) White glue(glass, screen)
白色胶水 (屏幕玻璃上)
- (13) Transparent / grey plastic(back, screen)
透明/灰色塑胶 (屏幕背面)
- (14) Silvery / black printed transparent glass(screen)
银色/黑色印透明玻璃 (屏幕)
- (15) White printed brown plastic with coppery metal(FPCB, screen)
柔性线路板 (屏幕的柔性线路板)
- (16) Black plastic(FPCB, screen)
黑色塑胶 (屏幕的柔性线路板上)
- (17) Black plastic(connector, FPCB, screen)
黑色塑胶 (屏幕的柔性线路板的连接)

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- (18) Dumb white plastic(connector, FPCB, screen)
哑白色塑胶 (屏幕的柔性线路板的连接)
- (19) Silvery metal(holder, connector, FPCB, screen)
银色金属 (屏幕的柔性线路板的连接固定)
- (20) Silvery metal(contact pin, FPCB, screen)
银色金属 (屏幕的柔性线路板的连接针脚)
- (21) White plastic(contact plate, PCB)
白色塑胶 (印刷线路板的接触板)
- (22) Golden metal(contact ring, PCB)
金色金属 (印刷线路板的接触环)
- (23) Silvery metal(cover, PCB)
银色金属 (印刷线路板的盖子)
- (24) Black plastic(USB inner, PCB)
黑色塑胶 (印刷线路板USB内里)
- (25) Silvery metal(cover, USB, PCB)
银色金属 (印刷线路板USB的盖子)
- (26) Silvery metal(pin, USB, PCB)
银色金属 (印刷线路板USB的接触针)
- (27) Black plastic(inner, "TF" socket, PCB)
黑色塑胶 (印刷线路板 "TF插口" 内里)
- (28) Silvery metal(cover, "TF" socket, PCB)
银色金属 (印刷线路板 "TF插口" 的盖子)
- (29) Silvery metal(pin, "TF" socket, PCB)
银色金属 (印刷线路板 "TF插口" 的接触针)
- (30) Black plastic(handle & base, slide switch, PCB)
黑色塑胶 (印刷线路板滑动开关的手柄&底座)
- (31) Silvery metal(cover, slide switch, PCB)
银色金属 (印刷线路板滑动开关的盖子)
- (32) Silvery metal(slip, slide switch, PCB)
银色金属 (印刷线路板滑动开关的滑片)
- (33) Silvery metal(contact plate, slide switch, PCB)
银色金属 (印刷线路板滑动开关的接触板)
- (34) Black plastic(button, small switch, PCB)
黑色塑胶 (印刷线路板小开关的按钮)
- (35) White plastic(base, small switch, PCB)
白色塑胶 (印刷线路板小开关的底座)
- (36) Silvery metal(cover, small switch, PCB)
银色金属 (印刷线路板小开关的盖子)

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- (37) Silvery metal(button, small switch, PCB)
银色金属 (印刷线路板小开关的按钮)
- (38) Silvery metal(contact plate, small switch, PCB)
银色金属 (印刷线路板小开关的接触板)
- (39) White printed white coated brown plastic with coppery metal(PCB)
印刷线路板 (印刷线路板)
- (40) Silvery solder(PCB, raw material)
银色焊锡 (印刷线路板上)
- (41) Black body(big IC, PCB)
黑色主体 (印刷线路板的大集成电路)
- (42) Black body(middle IC, PCB)
黑色主体 (印刷线路板的中集成电路)
- (43) Black body(small IC, PCB)
黑色主体 (印刷线路板的小集成电路)
- (44) Black body(SMD triode, PCB)
黑色主体 (印刷线路板的贴片三极管)
- (45) Black body(SMD diode, PCB)
黑色主体 (印刷线路板的贴片二极管)
- (46) Brown body(SMD capacitor, PCB)
棕色主体 (印刷线路板的贴片电容)
- (47) Black / white body(SMD resistor, PCB)
黑色/白色主体 (印刷线路板的贴片电阻)
- (48) Grey body(SMD inductor, PCB)
灰色主体 (印刷线路板的贴片电感)
- (49) Silvery body(crystal oscillator, PCB)
银色主体 (印刷线路板的晶体振荡器)

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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

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A.1 XRF screening test

XRF筛选测试

Test Method/测试方法: IEC 62321-3-1:2013

Seq No. 序号	Result 测试结果				
	Pb	Cd	Hg	Cr	Br
(1)	BL	BL	BL	BL	BL
(2)	BL	BL	BL	BL	BL
(3)	BL	BL	BL	BL	---
(4)	BL	BL	BL	BL	BL
(5)	BL	BL	BL	BL	BL
(6)	BL	BL	BL	BL	---
(7)	BL	BL	BL	BL	---
(8)*	BL	BL	BL	BL	X
(9)	BL	BL	BL	BL	---
(10)	BL	BL	BL	BL	BL
(11)	BL	BL	BL	BL	BL
(12)	BL	BL	BL	BL	BL
(13)	BL	BL	BL	BL	BL
(14)	BL	BL	BL	BL	---
(15)*	BL	BL	BL	BL	X
(16)	BL	BL	BL	BL	BL
(17)	BL	BL	BL	BL	BL
(18)	BL	BL	BL	BL	BL
(19)	BL	BL	BL	BL	---
(20)	BL	BL	BL	BL	---
(21)	BL	BL	BL	BL	BL
(22)* ¹	OL(7419)	BL	BL	BL	---
(23)	BL	BL	BL	BL	---
(24)	BL	BL	BL	BL	BL

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Seq No. 序号	Result 测试结果				
	Pb	Cd	Hg	Cr	Br
(25)	BL	BL	BL	BL	---
(26)	BL	BL	BL	BL	---
(27)	BL	BL	BL	BL	BL
(28)	BL	BL	BL	BL	---
(29)	BL	BL	BL	BL	---
(30)	BL	BL	BL	BL	BL
(31)	BL	BL	BL	BL	---
(32)	BL	BL	BL	BL	---
(33)	BL	BL	BL	BL	---
(34)*	BL	BL	BL	BL	X
(35)	BL	BL	BL	BL	BL
(36)	BL	BL	BL	BL	---
(37)*	BL	BL	BL	X	---
(38)	BL	BL	BL	BL	---
(39)*	BL	BL	BL	BL	X
(40)	BL	BL	BL	BL	---
(41)	BL	BL	BL	BL	BL
(42)	BL	BL	BL	BL	BL
(43)	BL	BL	BL	BL	BL
(44)	BL	BL	BL	BL	BL
(45)	BL	BL	BL	BL	BL
(46)	BL	BL	BL	BL	BL
(47)	BL	BL	BL	BL	BL
(48)	BL	BL	BL	BL	BL
(49)	BL	BL	BL	BL	BL

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Note:

备注:

--- = Not Applicable.

--- = 该项目不适用。

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

* = 样品既做扫描测试, 又做化学测试。化学测试结果见后续页。

*1 = As claimed by the material declaration submitted by the client, the materials of the sample No. 22 is 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.

根据客户提供的材质声明, 测试点 22 的材质为铜合金。根据2011/65/EU-RoHS指令及其修正指令, 铜合金中铅的重量含量不超过4% (40000ppm)时是豁免的。

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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.

备注:

I 测试结果为XRF荧光扫描的初步测试结果, 如果浓度超出IEC62321-3-1:2013规定的最低警戒值应进一步采用化学方法测试, 采用ICP (测Cd, Pb, Hg), UV-Vis (测 Cr(VI)), GC-MS(测 PBBs, PBDEs)。

Element 元素	Unit 单位	Polymers 聚合物	Metal 金属	Composite Material 合测材料
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)

注释:

BL = 低于限量

OL = 超出限量

IN/X = 不确定 (可疑的, 需要进一步做化学测试)

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:

II RoHS 元素的XRF荧光扫描测试 – 由非均匀物质组成的样品检测出来的数据与实际含量可能不同。

III 最大允许限量引用RoHS 指令 2011/65/EU:

RoHS Restricted Substances RoHS 指令的限定物质	Maximum Concentration Value (mg/kg) (by weight in homogenous materials) 最大浓度 (mg/kg)(同种材质的重量比)
Cadmium镉 (Cd)	100
Lead铅 (Pb)	1000
Mercury汞 (Hg)	1000
Hexavalent Chromium六价铬 (Cr(VI))	1000
Polybrominated biphenyls多溴联苯 (PBBs)	1000
Polybrominated diphenylethers多溴联苯醚 (PBDEs)	1000

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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.

声明：

XRF扫描报告结果仅供参考。申请人需自己根据本XRF扫描报告结果判定所提供测试的样品是否符合自己的用途。

影响XRF扫描测试结果的不确定因素很多，包括但不限于如样品大小、厚度、面积、表面平整度、仪器参数和基质效应（例如：塑胶、橡胶、金属、玻璃、陶瓷等等）。定量结果需要进一步的相关化学仪器分析以及湿式化学处理才能得出。

A.2 Wet Chemical Testing

湿化学测试

A.2.1 Chromium VI (CrVI) content

六价铬含量

Test Method/测试方法: IEC 62321-7-1:2015

Item 项目	Unit 单位	MDL	Result 测试结果	Limit 限量
			(37)	
hexavalent chromium(Cr VI) 六价铬	µg/cm ²	0.10	N.D.	See Remark 见备注
Conclusion 结论	/	/	Pass 合格	/

Limit Remark/限量备注:

- 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.

- 当六价铬结果大于0.13µg/cm²，表示样品表层含有六价铬；
- 当六价铬结果为N.D.(浓度小于0.10µg/cm²)，表示样品表层不含有六价铬；
- 当六价铬结果介于0.10及0.13µg/cm²时，无法确定表层是否含有六价铬；

针对金属表面的防腐涂层：由于未获知样品的存储条件和生产日期，样品的六价铬测试结果仅代表测试时样品的状态。

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A.2.2 PBBs & PBDEs content

多溴联苯和多溴二苯醚含量

Test Method/测试方法: IEC 62321-6:2015

Item 项目	Unit 单位	MDL	Result 测试结果				Limit 限量
			(8)	(15)	(34)	(39)	
Monobromobiphenyl (MonoBB) 一溴联苯	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Dibromobiphenyl(DiBB) 二溴联苯	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Tribromobiphenyl(TriBB) 三溴联苯	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Tetrabromobiphenyl(TetraBB) 四溴联苯	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Pentabromobiphenyl(PentaBB) 五溴联苯	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Hexabromobiphenyl(HexaBB) 六溴联苯	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Heptabromobiphenyl (HeptaBB) 七溴联苯	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Octabromobiphenyl(OctaBB) 八溴联苯	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Nonabromobiphenyl(NonaBB) 九溴联苯	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Decabromobiphenyl(DecaBB) 十溴联苯	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Monobromodiphenyl ether (MonoBDE) 一溴二苯醚	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Dibromodiphenyl ether (DiBDE) 二溴二苯醚	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Tribromodiphenyl ether (TriBDE) 三溴二苯醚	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Tetrabromodiphenyl ether (TetraBDE) 四溴二苯醚	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Pentabromodiphenyl ether (PentaBDE) 五溴二苯醚	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-

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Item 项目	Unit 单位	MDL	Result 测试结果				Limit 限量
			(8)	(15)	(34)	(39)	
Hexabromodiphenyl ether (HexaBDE) 六溴二苯醚	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Heptabromodiphenyl ether (HeptaBDE) 七溴二苯醚	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Octabromodiphenyl ether (OctaBDE) 八溴二苯醚	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Nonabromodiphenyl ether (NonaBDE) 九溴二苯醚	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
Decabromodiphenyl ether (DecaBDE) 十溴二苯醚	mg/kg	5	N.D.	N.D.	N.D.	N.D.	-
sum of MonoBDE,DiBDE,TriBDE,TetraBDE, PentaBDE,HexaBDE,HeptaBDE, OctaBDE,NonaBDE,DecaBDE	mg/kg	-	/	/	/	/	1000
sum of MonoBB,DiBB,TriBB,TetraBB,Pe ntaBB,HexaBB,HeptaBB,OctaBB, NonaBB,DecaBB	mg/kg	-	/	/	/	/	1000
Conclusion 结论	/	/	Pass 合格	Pass 合格	Pass 合格	Pass 合格	/

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

Test Method/测试方法: IEC 62321-8:2017

Item 项目	Unit 单位	MDL	Result 测试结果						Limit 限量
			(1)	(2)	(4)+(5)	(8)	(12)	(13)	
Dibutyl Phthalate(DBP) 邻苯二甲酸二丁酯	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP) 邻苯二甲酸丁基苄基酯	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP) 邻苯二甲酸二(2-乙基)己酯	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000

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Item 项目	Unit 单位	MDL	Result 测试结果						Limit 限量
			(1)	(2)	(4)+(5)	(8)	(12)	(13)	
Diisobutyl phthalate(DIBP) 邻苯二甲酸二异丁酯	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion 结论	/	/	Pass 合格	Pass 合格	Pass 合格	Pass 合格	Pass 合格	Pass 合格	/

Item 项目	Unit 单位	MDL	Result 测试结果					Limit 限量
			(17)+(18)+(21)	(24)+(27)	(30)+(34)+(35)	(10)+(11)	(15)+(16)	
Dibutyl Phthalate(DBP) 邻苯二甲酸二丁酯	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP) 邻苯二甲酸丁基苄基酯	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP) 邻苯二甲酸二(2-乙基)己酯	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP) 邻苯二甲酸二异丁酯	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion 结论	/	/	Pass 合格	Pass 合格	Pass 合格	Pass 合格	Pass 合格	/

Item 项目	Unit 单位	MDL	Result 测试结果				Limit 限量
			(39)+(41)+(42)	(43)+(44)+(45)	(46)+(47)	(48)+(49)	
Dibutyl Phthalate(DBP) 邻苯二甲酸二丁酯	mg/kg	30	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP) 邻苯二甲酸丁基苄基酯	mg/kg	30	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP) 邻苯二甲酸二(2-乙基)己酯	mg/kg	30	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP) 邻苯二甲酸二异丁酯	mg/kg	30	N.D.	N.D.	N.D.	N.D.	1000
Conclusion 结论	/	/	Pass 合格	Pass 合格	Pass 合格	Pass 合格	/

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Note:

- N.D.= Not Detected or less than MDL
- MDL = Method Detection Limit
- "+" = Composite testing.
- The Result less than MDL are not taken into account while calculating the sum contents.

注释:

- N.D.=未检出或小于方法检出限
- MDL = 方法检出限
- "+" =混合测试
- 加和含量计算时未计入小于方法检出限的结果。

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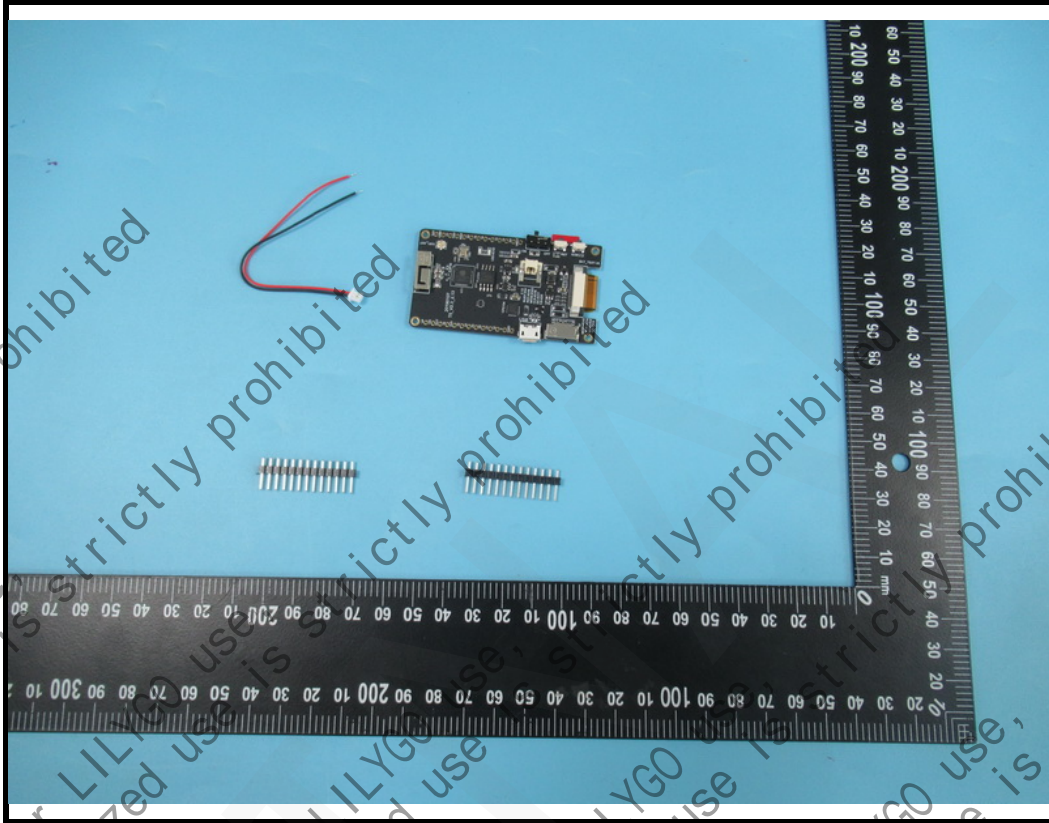
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Photograph of Sample
样品照片



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6.The test samples were in good condition before testing.

在进行测试前，测试样品已确认状态完好。

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