



# Test Report



中国认可  
国际互认  
检测  
TESTING  
CNAS L7462

Report No.: SFT21060721613-03-01E

Date: Jun.09, 2021

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Applicant: ALLWINNER TECHNOLOGY CO.,LTD

Address: NO.9 TECHNOLOGY ROAD 2, HIGH-TECH ZONE, ZHUHAI GUANGDONG CHINA

The following merchandise was (were) submitted and identified by client as:

Sample Name: T113-S3

Model No.: T113-S3

Test Period: From Jun.07, 2021 to Jun.09, 2021

## SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION
Heavy Metals , Flame Retardants and Phthalates Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments Commission Delegated Directive (EU) 2015/863	PASS

**Test Result(s):** Please refer to next page(s).

Signed for and on Behalf of SFT



Jack Zhong / Technical Manager  
Guangdong Safety Testing Co., Ltd.

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Guangdong Safety Testing Co., Ltd.

No.1, the 1<sup>st</sup> North Industry Road, Songshan Lake Sci.&Tech. Park, Dongguan,  
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## Test Result(s):

**Heavy Metals , Flame Retardants and Phthalates Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments Commission Delegated Directive (EU) 2015/863**

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Component				
		1	-	-	-	-
Lead (Pb)	1000	ND	-	-	-	-
Mercury (Hg)	1000	ND	-	-	-	-
Cadmium(Cd)	100	ND	-	-	-	-
Hexavalent Chromium (CrVI)	1000	ND	-	-	-	-
Monobromobiphenyl	-	ND	-	-	-	-
Dibromobiphenyl	-	ND	-	-	-	-
Tribromobiphenyl	-	ND	-	-	-	-
Tetrabromobiphenyl	-	ND	-	-	-	-
Pentabromobiphenyl	-	ND	-	-	-	-
Hexabromobiphenyl	-	ND	-	-	-	-
Heptabromobiphenyl	-	ND	-	-	-	-
Octabromobiphenyl	-	ND	-	-	-	-
Nonabromobiphenyl	-	ND	-	-	-	-
Decabromobiphenyl	-	ND	-	-	-	-
Sum of PBBs	1000	ND	-	-	-	-
Monobromodiphenyl ether	-	ND	-	-	-	-
Dibromodiphenyl ether	-	ND	-	-	-	-
Tribromodiphenyl ether	-	ND	-	-	-	-
Tetrabromodiphenyl ether	-	ND	-	-	-	-
Pentabromodiphenyl ether	-	ND	-	-	-	-
Hexabromodiphenyl ether	-	ND	-	-	-	-
Heptabromodiphenyl ether	-	ND	-	-	-	-
Octabromodiphenyl ether	-	ND	-	-	-	-
Nonabromodiphenyl ether	-	ND	-	-	-	-
Decabromodiphenyl ether	-	ND	-	-	-	-
Sum of PBDEs	1000	ND	-	-	-	-
Dibutyl phthalate (DBP)	1000	ND	-	-	-	-
Di-(2-ethyl hexyl) phthalate (DEHP)	1000	ND	-	-	-	-
Benzyl butyl phthalate (BBP)	1000	ND	-	-	-	-
Di-(iso-butyl) phthalate (DIBP)	1000	ND	-	-	-	-
Conclusion		PASS	-	-	-	-

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Note / Key : mg/kg = milligrams per kilogram (ppm=parts per million)  
ND = Not detected NA= Not applicable

Remark:

- The list of analytes is summarized in table of Appendix.
- According to European Council Directive 2011/65/EU, Article 5 "Adaptation of the Annexes to scientific and technical progress", exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive.
- Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Council Directive 2011/65/EU, Article 4(1).
- a. The sample is positive for Cr6+ if the Cr6+ concentration is greater than 0.13 $\mu$ g/cm<sup>2</sup>, The sample coating is considered to contain Cr6+.
- b. The sample is negative for Cr6+ if the Cr6+ is N.D. (concentration less than 0.10 $\mu$ g/cm<sup>2</sup>), The coating is considered a non-Cr6+ based coating.
- c. The result between 0.10 $\mu$ g/cm<sup>2</sup> and 0.13 $\mu$ g/cm<sup>2</sup> is considered to be inconclusive-unavoidable coating variations may influence the determination information on storage conditions and production date of the tested sample is unavailable and thus Cr6+ results represent status of the sample at the time of testing.

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## APPENDIX:

List of Analytes and their Corresponding Test Methods [ European Council Directive 2011/65/EU&(EU) 2015/863 ] :			
No.	Name of Analytes	Report Limit(mg/kg)	Test Method(s)
1	Lead (Pb)	10	With reference to IEC 62321-5: 2013.
2	Cadmium (Cd)	10	
3	Mercury (Hg)	10	With reference to IEC 62321-4: 2013.
4	Chromium VI (Cr VI)	10	<u>Metal</u> : With reference to IEC 62321-7-1:2015. <u>Polymers &amp; Electronics</u> : With reference to IEC 62321-7-2:2017.
5	Polybromobiphenyls - Bromobiphenyl - Dibromobiphenyl - Tribromobiphenyl - Tetrabromobiphenyl - Pentabromobiphenyl - Hexabromobiphenyl - Heptabromobiphenyl - Octabromobiphenyl - Nonabromobiphenyl - Decabromobiphenyl	50(each)	With reference to IEC 62321-6: 2015.
6	Polybromodiphenyl ethers - Bromodiphenyl ether - Dibromodiphenyl ether - Tribromodiphenyl ether - Tetrabromodiphenyl ether - Pentabromodiphenyl ether - Hexabromodiphenyl ether - Heptabromodiphenyl ether - Octabromodiphenyl ether - Nonabromodiphenyl ether - Decabromodiphenyl ether	50(each)	
7	Dibutyl phthalate (DBP) Di-(2-ethyl hexyl) phthalate (DEHP) Benzyl butyl phthalate (BBP) Di-(iso-butyl) phthalate (DIBP)	50(each)	With reference to IEC 62321-8:2017.

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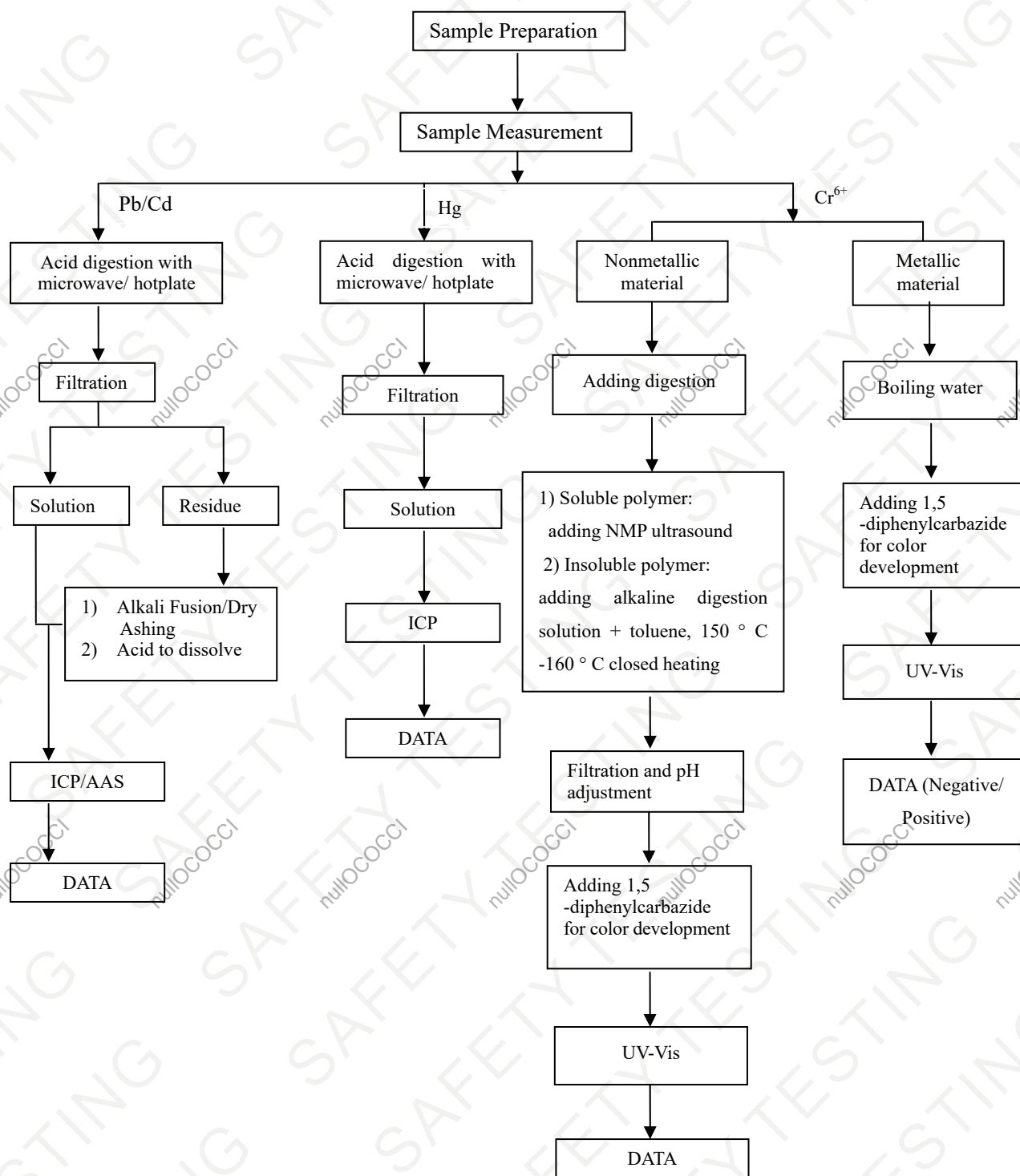
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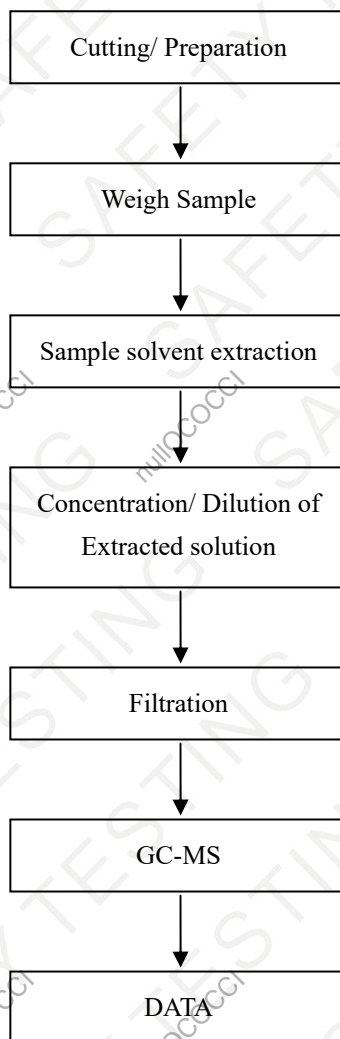
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## Pb/Cd/Hg/Cr<sup>6+</sup> Testing Flow Chart



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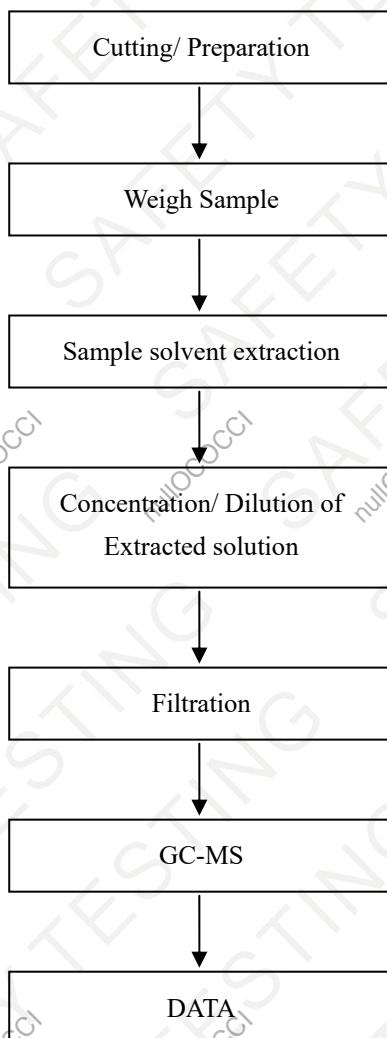
## PBBs/PBDEs Testing Flow Chart



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## Phthalates Testing Flow Chart



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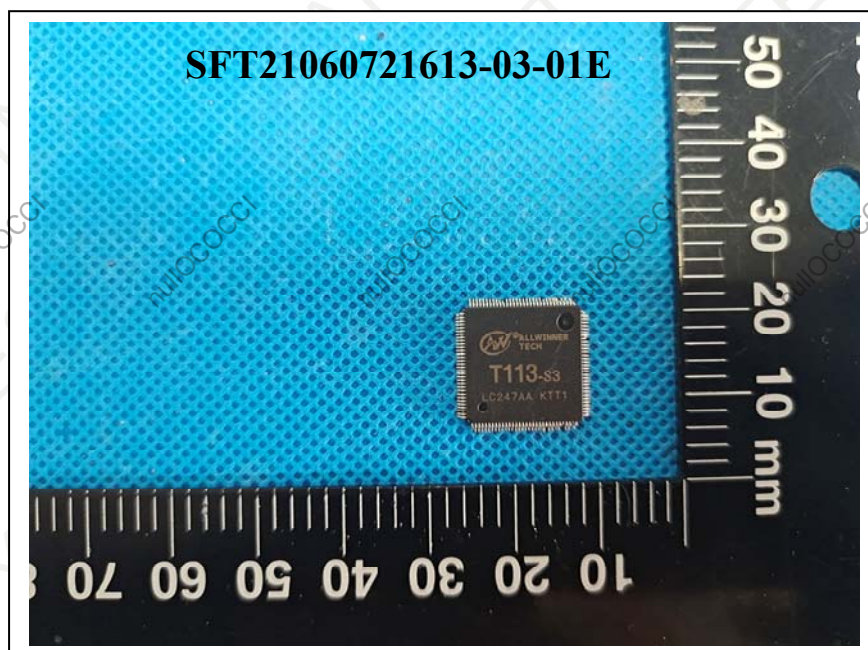
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Test Component	Sample Description/ Location	Style
1	Black solid (T113-S3)	-

Photo of Sample



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

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