

TEST REPORT

Entrusted Unit: Allwinner Technology Co.,LTD

Unit Address: NO.9 Technology Road 2,High-Tech Zone,Zhuhai ,Guangdong CHINA

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample name: T113-i

Sample Received

May. 24, 2022

Date:

Testing Period:

May. 24, 2022~ May. 30, 2022

Test Requirement:

As specified by client, to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated, Diphenyl Ethers(PBDEs), Bis-(2-ethylhexyl) Phthalate (DEHP), Benzyl butyl Phthalate (BBP), Dibutyl Phthalate (DBP) and Diisobutyl Phthalate(DIBP) contents in the submitted sample in accordance with RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Test Result(s): Please refer to the following page(s);

Test Method: Please refer to the following page(s);

Compiled by:

Dora

Reviewed by:

Y. Gao

Approved by:

Mark Liao

Date:

2022-05-30

Test Result(s):

Test item(s)	Limit ,mg/kg	Result(s), mg/kg
		1
Lead (Pb)	≤1000	N.D.
Cadmium (Cd)	≤100	N.D.
Mercury (Hg)	≤1000	N.D.
Hexavalent Chromium (Cr(VI))	≤1000	N.D.
Sum of PBBs	≤1000	N.D.
Monobromobiphenyl	/	N.D.
Dibromobiphenyl	/	N.D.
Tribromobiphenyl	/	N.D.
Tetrabromobiphenyl	/	N.D.
Pentabromobiphenyl	/	N.D.
Hexabromobiphenyl	/	N.D.
Heptabromobiphenyl	/	N.D.
Octabromobiphenyl	/	N.D.
Nonabromobiphenyl	/	N.D.
Decabromobiphenyl	/	N.D.
Sum of PBDEs	≤1000	N.D.
Monobromodiphenyl ether	/	N.D.
Dibromodiphenyl ether	/	N.D.
Tribromodiphenyl ether	/	N.D.
Tetrabromodiphenyl ether	/	N.D.
Pentabromodiphenyl ether	/	N.D.
Hexabromodiphenyl ether	/	N.D.
Heptabromodiphenyl ether	/	N.D.
Octabromodiphenyl ether	/	N.D.
Nonabromodiphenyl ether	/	N.D.
Decabromodiphenyl ether	/	N.D.
Bis-(2-ethylhexyl) Phthalate (DEHP)	≤1000	N.D.
Benzylbutyl Phthalate (BBP)	≤1000	N.D.
Dibutyl Phthalate (DBP)	≤1000	N.D.
Diisobutyl Phthalate (DIBP)	≤1000	N.D.
Conclusion	/	Pass

Sample Description:

1.Black chip

Note:

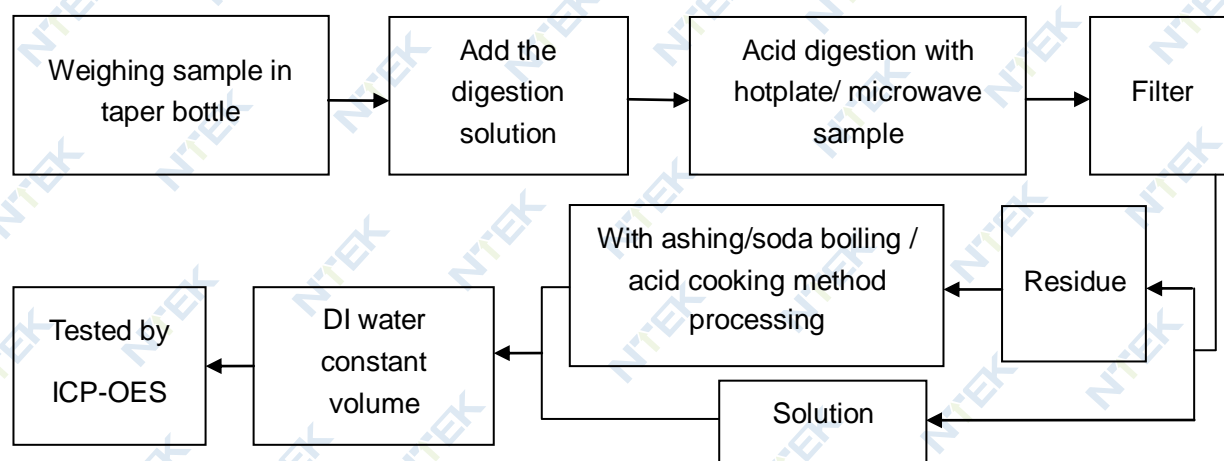
- 1.N.D. = Not Detected (<MDL)
- MDL = Method Detection Limit
- 2.1mg/kg = 1ppm = 0.0001%
- /=Not Regulated or Not Applicable
- 3. The sample is negative for Cr(VI), if the Cr(VI) concentration is less than 0.10µg/cm²,
The coating is considered a non- Cr(VI) based coating;
The sample is positive for Cr(VI), if the Cr(VI) concentration is greater than 0.13 µg/cm²,
The sample coating is considered to contain Cr(VI);
The result is considered to be inconclusive, The Cr(VI) concentration is between the
0.10µg/cm² and 0.13 µg/cm²,Unavoidable coating variations may influence the determination.
Because the storage condition and production date of the sample are not known, the test
results of the sample of hexavalent chromium can only represent the state of hexavalent
chromium in the samples tested.

Test Method:

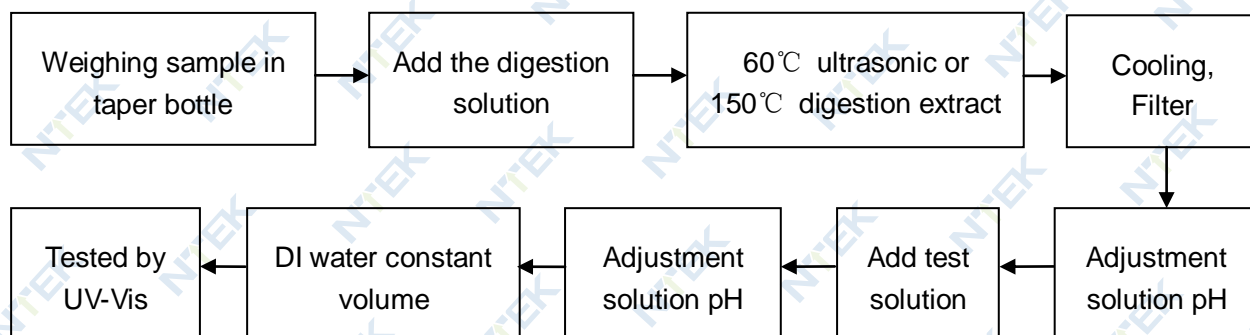
Test item	Test method	Test instrument	MDL
Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg
Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 Ed.1.0	UV-Vis	8 mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg
Polybrominated, Diphenyl Ethers (PBDEs)	IEC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg
Bis-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 Ed.1.0	GC-MS	50 mg/kg
Benzylbutyl Phthalate (BBP)	IEC 62321-8:2017 Ed.1.0	GC-MS	50 mg/kg
Dibutyl Phthalate (DBP)	IEC 62321-8:2017 Ed.1.0	GC-MS	50 mg/kg
Diisobutyl Phthalate (DIBP)	IEC 62321-8:2017 Ed.1.0	GC-MS	50 mg/kg

Test Flow:

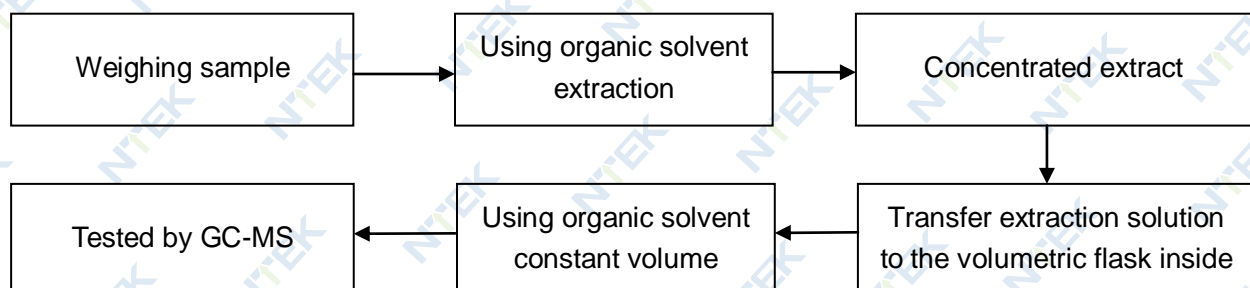
1. Lead(Pb), Cadmium(Cd), Mercury (Hg)



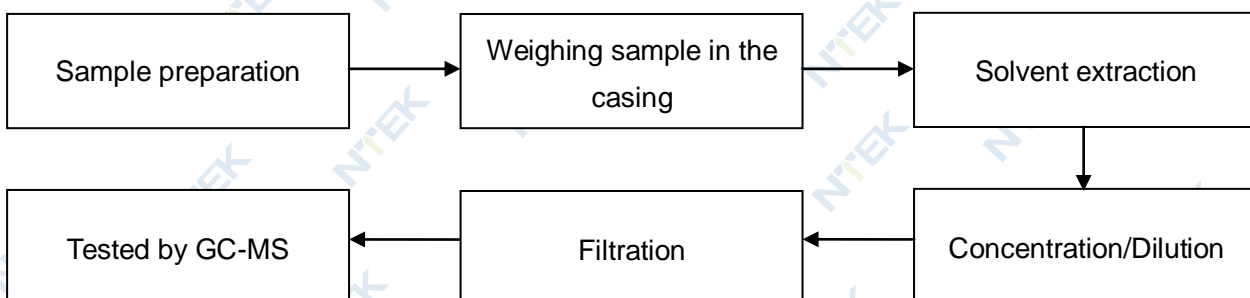
2. Hexavalent Chromium(Cr(VI))



3. PBBs/ PBDEs



4. Phthalates



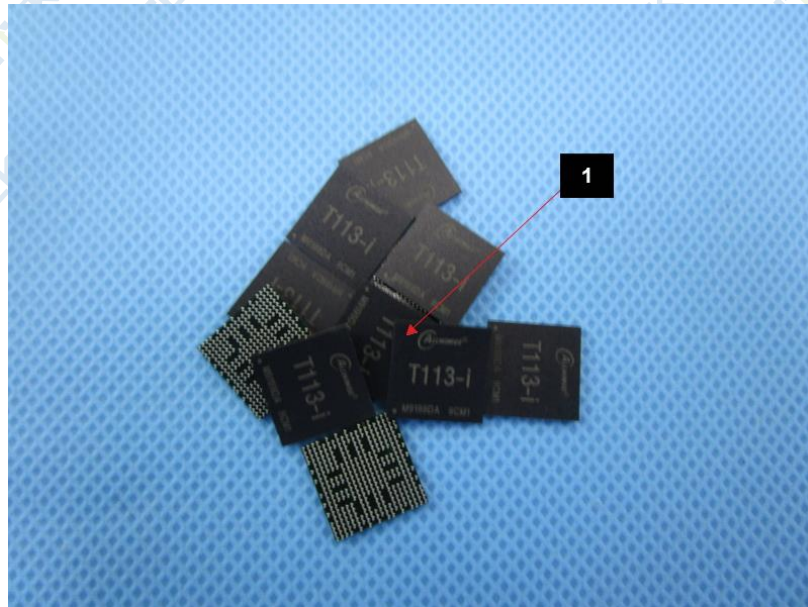
Sample photo(s):

Fig.1

****End of Report****

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