



Test Report

Report No.: WTH23H01005434C

Date: Jan. 13, 2023

Page 1 of 5

Applicant: FOSHAN BLUE ROCKET ELECTRONICS CO., LTD

Address: NO.45 GUXIN ROAD, CHANCHENG DISTRICT, FOSHAN, GUANGDONG, P.R.C.

Sample Information:

Sample Name: Semiconductor Device

Sample Model: SOT-523

Sample Received Date: Jan. 10, 2023

Testing Period: Jan. 10, 2023 - Jan. 13, 2023

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

Test Requested:	Conclusion
As specified by client, to determine the Pb, Cd, Hg, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP content in the sample with reference to EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863.	PASS



Signed for and on behalf of HCT

Michael Huang





Test Report

Report No.: WTH23H01005434C

Date: Jan. 13, 2023

Page 2 of 5

Test Result(s):

Unit: mg/kg

Test Items	Test Method/ Equipment	MDL	Content	EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863		
Lead(Pb)	IEC 62321-5:2013.	2	14	1000		
Cadmium(Cd)	ICP-OES/AAS	2	N.D.	100		
Mercury(Hg)	IEC 62321-4:2013 +AMD1:2017. ICP-OES	2	N.D.	1000		
Hexavalent Chromium(Cr(VI))	IEC 62321-5:2013/ IEC 62321-7-2:2017. ICP-OES/AAS UV-VIS	8	N.D.	1000		
Mono-bromobiphenyl	WALTEK	5	N.D.	—		
Di-bromobiphenyl		5	N.D.			
Tri-bromobiphenyl		5	N.D.			
Tetra-bromobiphenyl		5	N.D.			
Penta-bromobiphenyl		5	N.D.			
Hexa-bromobiphenyl		5	N.D.			
Hepta-bromobiphenyl		5	N.D.			
Octa-bromobiphenyl		5	N.D.			
Nona-bromobiphenyl		5	N.D.			
Deca-bromobiphenyl		5	N.D.			
Polybrominated Biphenyls(PBBs)		IEC 62321-6:2015. GC-MS	—		N.D.	1000
Mono-bromodiphenyl ether			5		N.D.	—
Di-bromodiphenyl ether	5		N.D.			
Tri-bromodiphenyl ether	5		N.D.			
Tetra-bromodiphenyl ether	5		N.D.			
Penta-bromodiphenyl ether	5		N.D.			
Hexa-bromodiphenyl ether	5		N.D.			
Hepta-bromodiphenyl ether	5		N.D.			
Octa-bromodiphenyl ether	5		N.D.			
Nona-bromodiphenyl ether	5		N.D.			
Deca-bromodiphenyl ether	5	N.D.				
Polybrominated DiphenylEthers(PBDEs)		—	N.D.			





Test Report

Report No.: WTH23H01005434C

Date: Jan. 13, 2023

Page 3 of 5

Test Items	Test Method/Equipment	MDL	Content	EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863
Dibutyl phthalate (DBP)	IEC 62321-8:2017, GC-MS	30	N.D.	1000
Butylbenzyl phthalate (BBP)		30	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)		30	N.D.	1000
Di-iso-butyl phthalate(DIBP)		30	N.D.	1000

Note:

“—” =Not regulated

mg/kg (milligram per kilogram) = ppm (parts per million)

MDL=Method Detection Limit

N.D.=Not Detected(less than method detection limit)

Results shown as N.D. are ignored in the sum calculation.

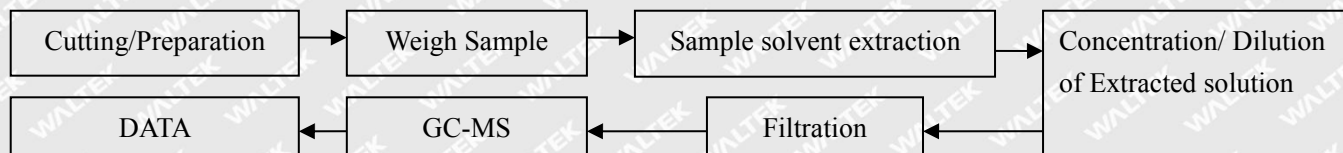
The detected Chromium (Cr) content is "N.D.", therefore, the Hexavalent Chromium (Cr (VI)) content is "N.D.", No need for validation test of the Hexavalent Chromium (Cr (VI)).

If Chromium (Cr) content exceeds Hexavalent Chromium (Cr (VI)) method detection limit, Validation test of the Hexavalent Chromium (Cr (VI)) is required.

Sample Description:

No.	HCT Sample ID	Test Part Description	
1	WTH23H01005434C~36C.1	1	Black body

Test Flow Chart (DBP, BBP, DEHP, DIBP)





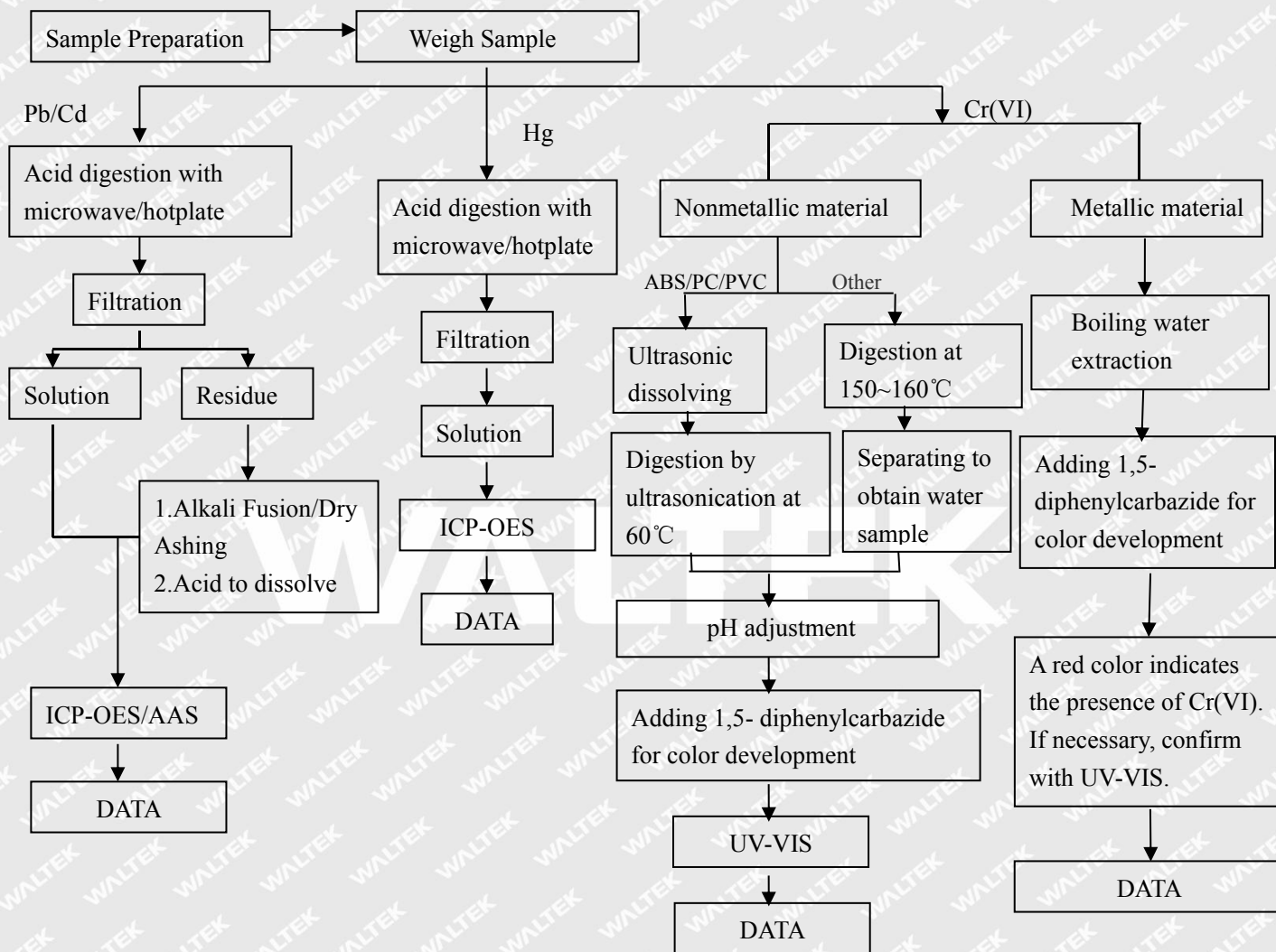
Test Report

Report No.: WTH23H01005434C

Date: Jan. 13, 2023

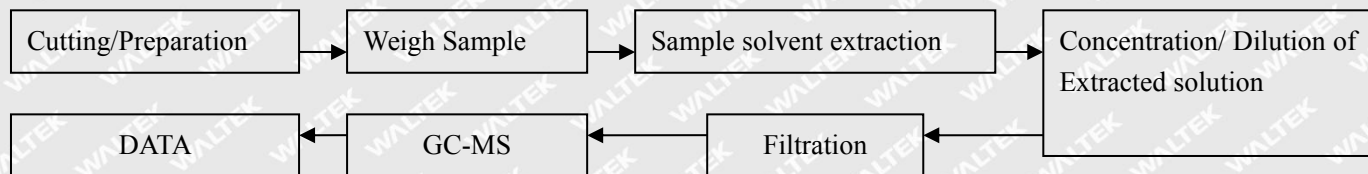
Page 4 of 5

Test Flow Chart (Pb, Cd, Hg, Cr(VI), PBBs, PBDEs)



These sample were dissolved totally by pre-conditioning method according to above flow chart(Cr(VI) test method excluded)

PBBs/PBDEs





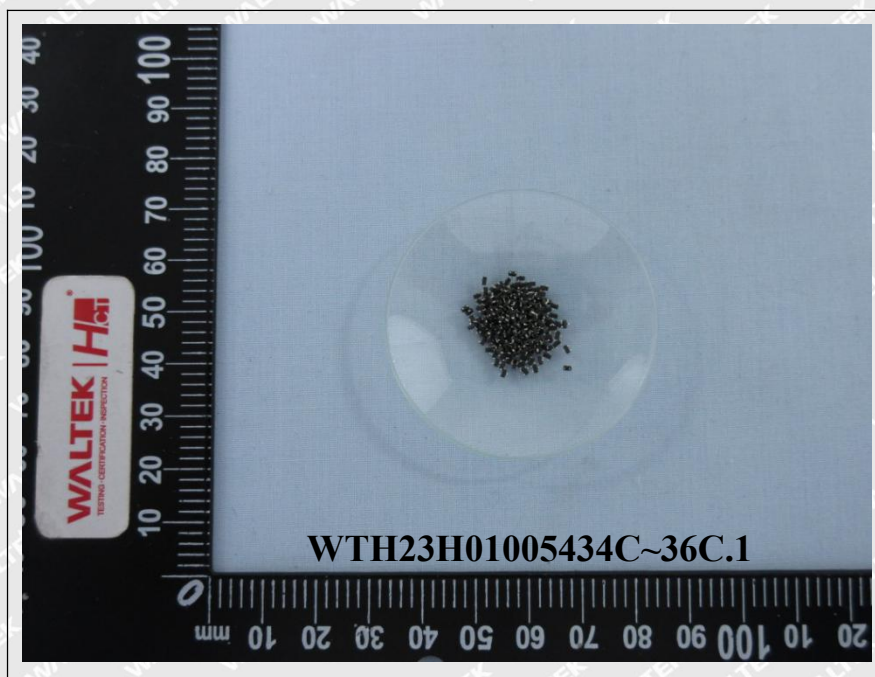
Test Report

Report No.: WTH23H01005434C

Date: Jan. 13, 2023

Page 5 of 5

The photo of the sample



Statement:

1. This report is considered invalid without approved signature and special seal;
2. The Applicant name and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which HCT hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of HCT, this report can't be reproduced except in full;
5. The result(s) in no CMA logo report shall only be used for client's scientific research, teaching, internal quality control, product research and development, etc. and just for internal reference;
6. The "n" in CNAS logo report means that the test item(s) was (were) currently not applying for CNAS accreditation;
7. Decision rules used in this report:

(1) According to the Decision rules in the regulations/standards listed in the Test Requested;

(2) If there is no Decision rules specified in the regulations listed in the Test Requested, then according to CNAS-GL015 Guidelines on Decision Rules and Statements of Conformity, 6.2.1, Simple Acceptance ($w=0$) of The binary Decision rule:

PASS (Accepted) - The measured value is within the tolerance interval.

FAIL (Rejected) - The measured value is outside the tolerance interval.

End

