

RoHS Test Report

Applicant name:	Zhongshan Guangsheng Semiconductor Technology Co., Ltd.		
Applicant address:	Floor 2-3, Building 2, Qifang Industrial Park,Pinghe Road, Tongyi Industrial district, Guzhen Town, Zhongshan City,China		
Sample information:			
Sample Name:	Flip Chip COB Light Sourse		
Sample Model:	СОВ		
Trade mark :	6		
Manufacturer:	Zhongshan Guangsheng Semiconductor Technology Co., Ltd. Floor 2-3, Building 2, Qifang Industrial Park,Pinghe Road, Tongyi Industrial district, Guzhen Town, Zhongshan City,China		
Sample Received Date:	Aug.12,2022		
Testing Period:	Aug.12,2022~Aug.18,2022		
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Test Requested

As specified by client, to determine the Lead, Cadmium, Mercury,Hexavalent Chromium, PBBs, PBDEs, DEHP, BBP, DBP & DIBP content in the submitted sample compliance with RoHS directive 2011/65/EU Annex II amending Annex (EU)2015/863 and amending Annex (EU)2017/2102.

Test Method:

Tested Item(s)	Test Method	Measured Equipment(s)	MDL
Lead(Pb)	IEC 62321-5:2013	ICP-OES	2mg/kg
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES	2mg/kg
Mercury(Hg)	IEC 62321-4:2013+A1:2017	ICP-OES	2mg/kg
Hexavalent Chromium(Cr(VI))	IEC 62321-7-1:2015 IEC 62321-7-2:2017	UV-VIS	2mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	5mg/kg
Polybrominated Dipheny1 Ethers (PBDEs)	IEC 62321-6:2015	GC-MS	5mg/kg
Di-(2-ethylhexyl) phthalate(DEHP)	IEC 62321-8:2017	GC-MS	50mg/kg
Benzylbutyl phthalate(BBP)	IEC 62321-8:2017	GC-MS	50mg/kg
Dibutyl phthalate (DBP)	IEC 62321-8:2017	GC-MS	50mg/kg
Diisobutyl phthalate(DIBP)	IEC 62321-8:2017	GC-MS	50mg/kg

Test Result(s)

Please refer to the following page(s).

by: Heber He Test Ken Approved by: Technical Manager

Inspected by:	
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Date :

Aug.18,2022

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Test Result(1):

Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs Content RoHS Directive 2011/65/EU Annex II amending Annex (EU)2015/863 and amending Annex (EU)2017/2102.

Tested Item(s)	Content	Limit	MDL
Lead(Pb)	N.D.	1000	2
Cadmium(Cd)	N.D.	100	2
Mercury(Hg)	N.D.	1000	2
Hexavalent Chromium(Cr(VI))	N.D.	1000	2
Polybrominated Biphenyls (PBBs)			
Monobromobiphenyl	N.D.	-	5
Dibromobiphenyl	N.D.	-	5
Trbromobiphenyl	N.D.	-	5
Tetrabromobiphenyl	N.D.	-	5
Pentbromobiphenyl	N.D.	-	5
Hexabromobiphenyl	N.D.	-	5
Heptabromobiphenyl	N.D.	-	5
Octabromobiphenyl	N.D.	-	5
Nonabromobiphenyl	N.D.	-	5
Decabromobiphenyl	N.D.	-	5
Sum of PBBs	N.D.	1000	-
Polybrominated Diphenyl Ethers(PB	DEs)		
Monobromodiphenyl ether	N.D.	-	5
Dibromodiphenyl ether	N.D.	-	5
Tribromodiphenyl ether	N.D.	-	5
Tetrabromodiphenyl ether	N.D.	-	5
Pentabromodiphenyl ether	N.D.	-	5
Hexabromodiphenyl ether	N.D.	-	5
Heptabromodiphenyl ether	N.D.	-	5
Octabromodiphenyl ether	N.D.	-	5
Nonabromodiphenyl ether	N.D.	-	5
Decabromodiphenyl ether	N.D.	-	5
Sum of PBDES	N.D.	1000	-

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Hotline: 400-6655-351 Tel: 86-755-23595200 Fax: 86-755-23595201



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Test Result(2):

Di-(2-ethylhexyl) phthalate, Benzylbutyl phthalate, Dibutyl phthalate and Diisobutyl phthalate RoHS Directive 2011/65/EU Annex II amending Annex (EU)2015/863 and amending Annex (EU)2017/2102.

Tested Item(s)	Content	Limit	MDL
Di-(2-ethylhexyl) phthalate(DEHP)	N.D.	1000	50
Benzylbutyl phthalate(BBP)	N.D.	1000	50
Dibutyl phthalate (DBP)	N.D.	1000	50
Diisobutyl phthalate(DIBP)	N.D.	1000	50

Note:

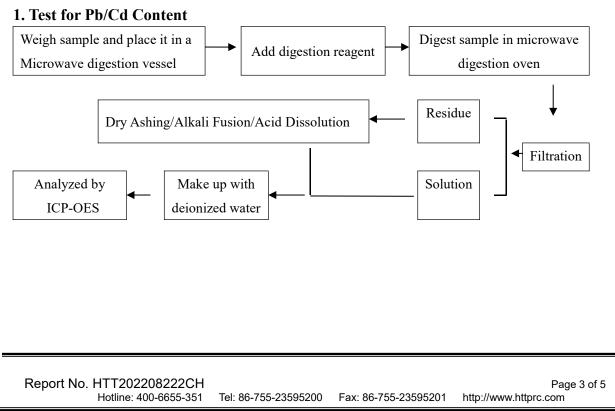
MDL = Method Detection Limit

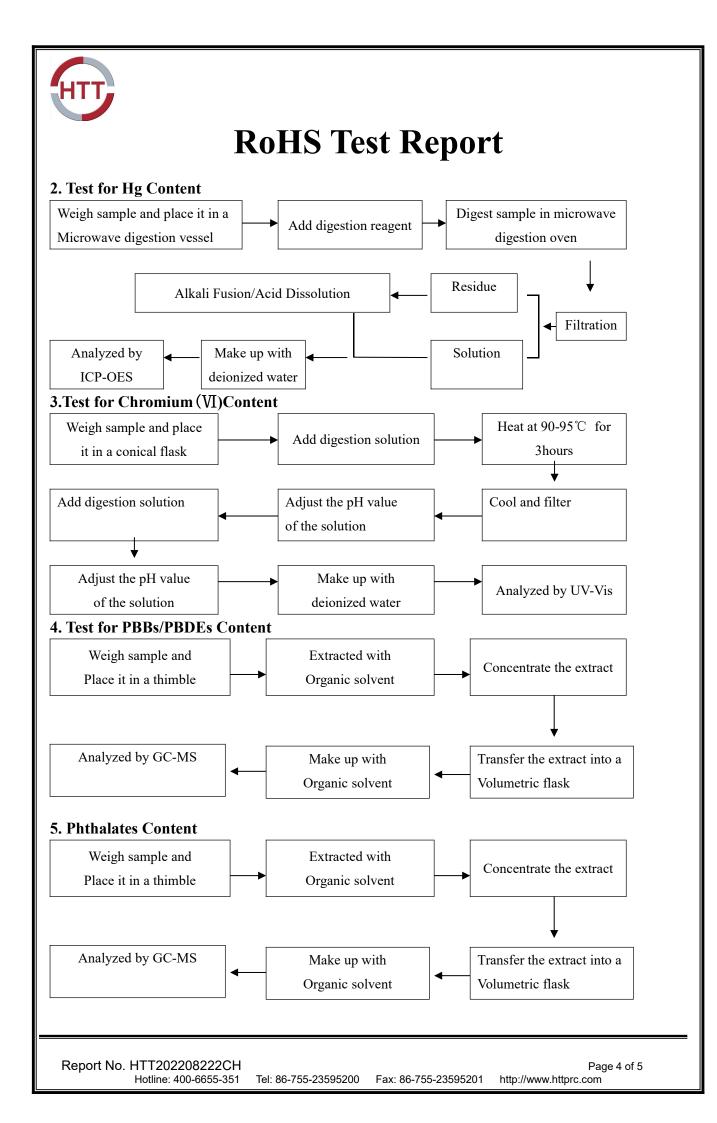
N.D. =Not Detected(<MDL)

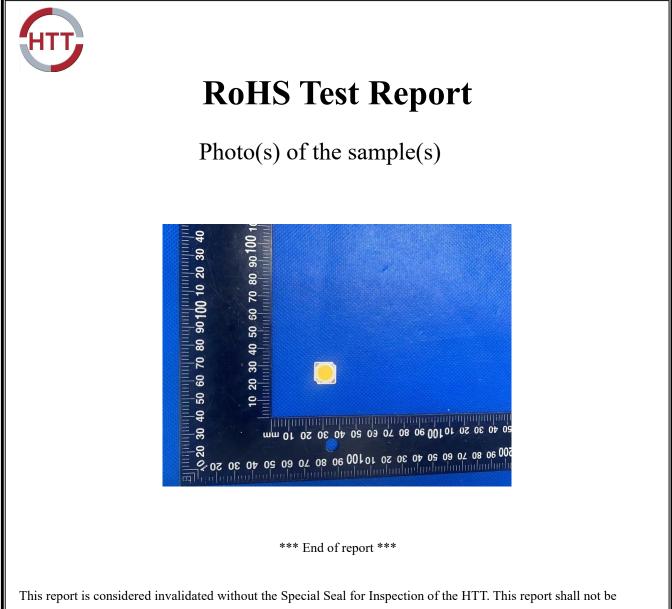
mg/kg = ppm =parts per million

"-"=Not specified

Test process







altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of HTT, this test report shall not be copied except in full and published as advertisement.