

## Test Report

No.: GZ0803040076/CHEM

Date: MAR 19, 2008

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GUANGZHOU HONGLI OPTO-ELECTRONIC CO., LTD  
WEST SIDE OF DONGFENG HIGHWAY, AUTO CITY HUADU DISTRICT, GUANGZHOU, CHINA

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

SGS Ref No. : GC080300815-3.1  
Sample Receiving Date : MAR 14, 2008  
Testing Period : MAR 14, 2008 TO MAR 19, 2008

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321/2nd CDV (111/95/CDV)  
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products  
(1) Determination of Cadmium by ICP-OES.  
(2) Determination of Lead by ICP-OES.  
(3) Determination of Mercury by ICP-OES.  
(4) Determination of Hexavalent Chromium by Colorimetric Method.  
(5) Determination of PBBs and PBDEs by GC-MS.

Test Results : Please refer to next page.

Conclusion : Based on the performed tests on submitted sample(s), the results **comply with** the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of  
SGS-CSTC Ltd.



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Huang Fang, Sunny  
Sr. Engineer

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Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	No.1	MDL	RoHS Limit
Cadmium(Cd)	(1)	N.D.	2	100
Lead (Pb)	(2)	N.D.	2	1000
Mercury (Hg)	(3)	N.D.	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D.	2	1000
<b>Sum of PBBs</b>		<b>N.D.</b>	-	1000
Monobromobiphenyl		N.D.	5	
Dibromobiphenyl		N.D.	5	
Tribromobiphenyl		N.D.	5	
Tetrabromobiphenyl		N.D.	5	
Pentabromobiphenyl		N.D.	5	
Hexabromobiphenyl		N.D.	5	
Heptabromobiphenyl		N.D.	5	
Octabromobiphenyl		N.D.	5	
Nonabromobiphenyl		N.D.	5	
Decabromobiphenyl		N.D.	5	
<b>Sum of PBDEs (Mono to Nona)(Note 4)</b>	(5)	<b>N.D.</b>	-	1000
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	
<b>Sum of PBDEs (Mono to Deca)</b>		<b>N.D.</b>	-	-

### Test Part Description:

No.1 "SMD" (mixed)

Note : 1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

4. Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.

5. "-" = Not regulated

Remark : As requested by client, the testing was conducted as whole / part sample, for the sample can't be disjointed.

Sample photo :



SGS authenticate the photo on original report only

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