



Report No.	FX03-
Contract No.	FX0414-6690-02
Total Pages	6

TEST REPORT

Sample: PCB

Type: rosin PCB

Manufacturer: AR Leader P.C.B (Zhuhai) Co., Ltd.

Client: AR Leader P.C.B (Zhuhai) Co., Ltd.



CEPREI CHINA CEPREI LABORATORY

**Testing Center for Pollution Control of Electronic
Information Products of Information Industry**

Test Report

Client: AR Leader P.C.B (Zhuhai) Co., Ltd.
Address: No 3, Feiyue Road, Qinshi Industrial Area, Sanzao Science & Technology Industrial Park, Jinwan District Zhuhai, Guangdong, P.R.China

Date Submitted: Sep. 19, 2014

Test Date: Sep. 22, 2014~ Sep. 24, 2014

Sample Name: PCB

Test Item: Test the Concentrations of Pb, Cd, Hg, Cr(VI), PBBs, PBDEs in the Sample

Test Method: IEC 62321-2008 Electrotechnical Products – Determination of levels of six regulated substances

Test Ambient: Temperature: 23°C~25°C Relative Humidity: 50%RH~55%RH

Test Instruments: 1) UV-Vis Spectrophotometer(UV-VIS) UV-mini 1240 / No.7434080002
2) Inductively Coupled Plasma Optical Emission Spectrometry(ICP-OES) Varian 710-ES / No.7434040008
3) Electronic Balance CP224S / No.7461030018
4) Gas Chromatograph-mass Spectrometer System(GC-MS) Trace 2000 / No. 7446230001

Test Result: Refer to Table 3 and Table 4.

CHINA CEPREI LABORATORY

Testing Center for Pollution Control of Electronic
Information Products of Information Industry

Tested by :

Supervised by :

Approved by :

Date: 2014-09-25

Date: 2014-09-25

Position:
Date: 2014-09-25

1. SAMPLE DESCRIPTION

Table 1 Sample Information

Sample Name	Type	Manufacturer	Photo
PCB	rosin PCB	AR Leader P.C.B (Zhuhai) Co., Ltd.	Fig.1

Remark: As the requirements of the client, test the sample without disjoining.

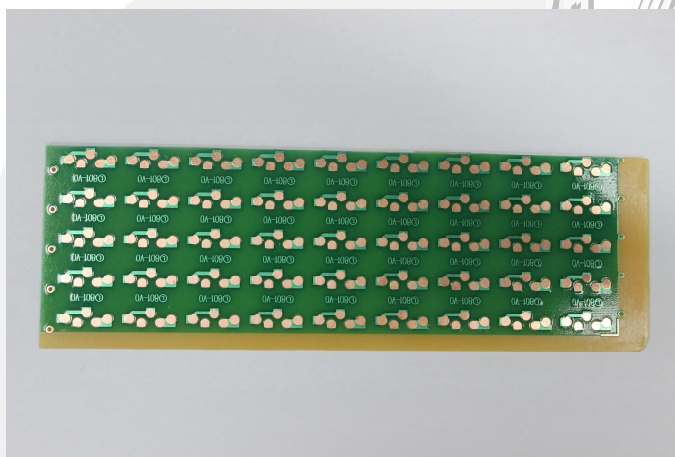


Fig.1 The View of Sample

2. TEST METHOD AND TECHNICAL REQUIREMENT

Table 2 Test Method and Technical Requirement

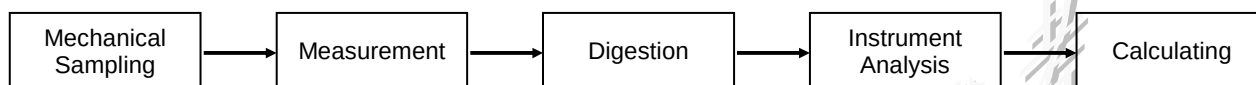
Serial No.	Test Items	Test Methods	RoHS MCV (mg/kg, ≤)	Instrument
1	Lead (Pb)	IEC 62321-2008 Section 10	1000	ICP-OES
2	Cadmium (Cd)	IEC 62321-2008 Section 10	100	ICP-OES
3	Mercury(Hg)	IEC 62321-2008 Section 7	1000	ICP-OES
4	Hexavalent Chromium[Cr(VI)]	IEC 62321-2008 Annex C	1000	UV-VIS
5	PBBs	IEC 62321-2008 Annex A	1000	GC-MS
6	PBDEs	IEC 62321-2008 Annex A	1000	GC-MS

Remark : "MCV" means "Maximum Concentration Value".

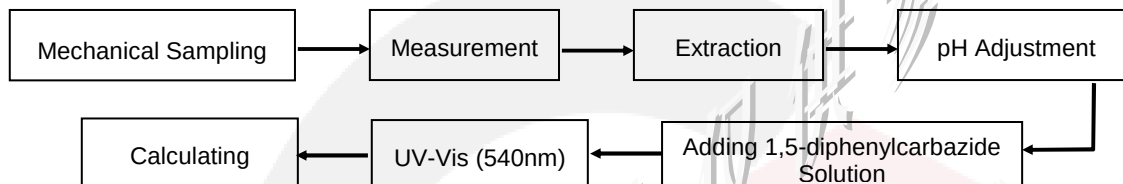
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3. TEST FLOW

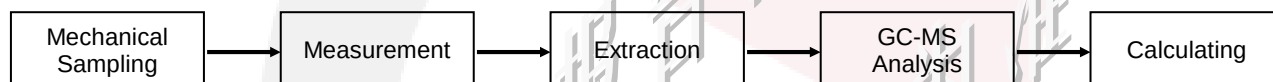
3.1 Test Flow of Lead ,Cadmium, Mercury



3.2 Test Flow of Cr(VI)



3.3 Test Flow of PBBs, PBDEs



4. TEST RESULT

4.1 Test Results of Heavy Metal Elements

Table 3 Test Results of Heavy Metal Elements

Serial No.	Test Items	MDL (mg/kg)	Test Result (mg/kg)
1	Lead (Pb)	2	ND
2	Cadmium (Cd)	2	ND
3	Mercury(Hg)	2	ND
4	Hexavalent Chromium [Cr(VI)]	2	ND

Remark :1) "ND" means "Not Detected".

2) "MDL" means "Method Detection Lower Limit".

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4.2 Test Results of PBBs and PBDEs

Table 4 Test Results of PBBs and PBDEs

Serial No.	Test Items	MDL (mg/kg)	Test Results (mg/kg)
1	Monobromobiphenyl	1	ND
2	Dibromobiphenyl	1	ND
3	Tribromobiphenyl	1	ND
4	Tetrabromobiphenyl	1	ND
5	Pentabromobiphenyl	1	ND
6	Hexabromobiphenyl	1	ND
7	Heptabromobiphenyl	2	ND
8	Octabromobiphenyl	2	ND
9	Nonabromobiphenyl	2	ND
10	Decabromobiphenyl	5	ND
11	Total PBBs (Polybrominated biphenyls)	/	ND
12	Monobromodiphenyl Ether	1	ND
13	Dibromodiphenyl Ether	1	ND
14	Tribromodiphenyl Ether	1	ND
15	Tetrabromodiphenyl Ether	1	ND
16	Pentabromodiphenyl Ether	1	ND
17	Hexabromodiphenyl Ether	1	ND
18	Heptabromodiphenyl Ether	2	ND
19	Octabromodiphenyl Ether	2	ND
20	Nonabromodiphenyl Ether	2	ND
21	Decabromodiphenyl Ether	5	ND
22	Total PBDEs (Polybrominated Diphenyl Ethers)	/	ND

Remark:1) "ND" means "Not Detected".

2) "MDL" means "Method Detection Lower Limit".

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NOTICE

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3. The report is invalid without all signatures of the persons in charge of testing, supervising and approval.
4. The report is invalid if being altered.
5. CEPREI is only responsible for the test results of submitted samples.
6. If any complaint, it should be raised to Reliability Research and Analysis Center or the headquarters of CEPREI directly according to the complaint procedure.

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