

TEST REPORT

Customer information	Client	SHENZHEN GAJITONE ELECTRONICS CO.,LTD.
	Address	Room 1810, International Chamber of Commerce Building, Futian, Shenzhen, Guandong China PRC.
Sample information	Name of sample	ALUMINUM ELECTROLYTIC CAPACITORS
	Order No.	----
	Item No./Lot No.	----
	Manufacturer	SHENZHEN GAJITONE ELECTRONICS CO.,LTD.
	Address	Room 1810, International Chamber of Commerce Building, Futian, Shenzhen, Guandong China PRC.
Test information	Sample received	Jun. 17, 2015
	Testing date	Jun. 17, 2015 ~ Jun. 23, 2015
	Test sort	Commission Test
	Requested/item	(1) Cd, Pb, Hg (2) Cr(VI), PBBs, PBDEs
	Standard/Foundation	(1) According to IEC 62321-5:2013, Cadmium, lead and chromium in polymers and electronics and cadmium and lead in metals by ICP-OES According to IEC 62321-4:2013, Mercury in polymers, metals and electronics by ICP-OES (2) According to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric method, determination of PBBs and PBDEs by GC-MS
Summary	The tested parts of submitted sample complied with RoHS directive (2011/65/EU).	
Remark	----	

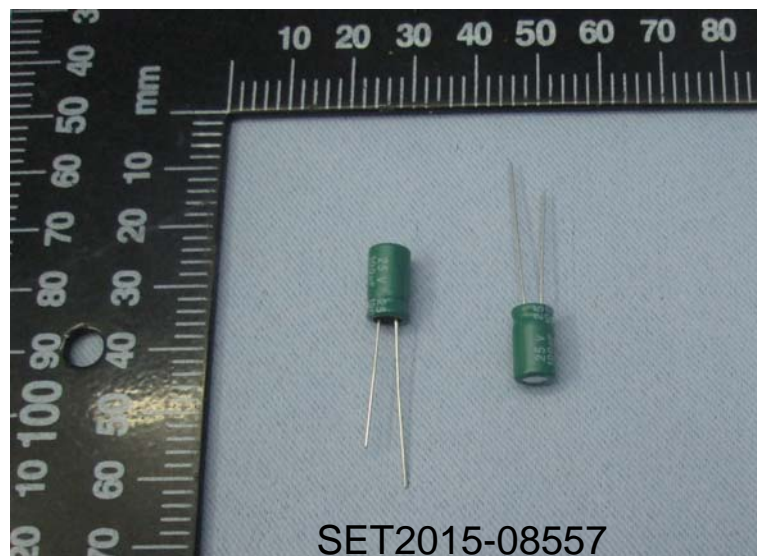
Tested By: *Yang Su Ping* Checked By: *Sifeifei* Approved By: *Billow*

Date: Jun. 23, 2015 Date: Jun. 23, 2015 Date: Jun. 23, 2015

Tested components:

SAMPLE No.	COMPONENTS	COLOR AND MATERIAL	TEST ITEM
1	Electrolyte	Electrolyte	Cd, Pb, Hg, Cr (VI), PBBs & PBDEs
2	Aluminium shell	Aluminium shell	Cd, Pb, Hg, Cr (VI)
3	Rubber plug	Rubber plug	Cd, Pb, Hg, Cr (VI), PBBs & PBDEs
4	Down-lead	Down-lead	Cd, Pb, Hg, Cr (VI)
5	Tube	Tube	Cd, Pb, Hg, Cr (VI), PBBs & PBDEs
6	Aluminum foil	Aluminum foil	
7	Electrolytic paper	Electrolytic paper	

Sample photo:



Test result:

ITEM	SAMPLE No.	SAMPLE CONCENTRATION (mg/kg)				MDL (mg/kg)	REQUIRED LIMIT (mg/kg)
		1	2	3	4		
	Cd	N.D.	N.D.	N.D.	N.D.	2	<100
	Cr(VI)	N.D.	* Negative	N.D.	* Negative	2	<1000
	Hg	N.D.	N.D.	N.D.	N.D.	2	<1000
	Pb	N.D.	N.D.	N.D.	N.D.	2	<1000
	Monobromobiphenyl	N.D.	/	N.D.	/	5	-----
	Dibromobiphenyl	N.D.	/	N.D.	/	5	-----
	Tribromobiphenyl	N.D.	/	N.D.	/	5	-----
	Tetrabromobiphenyl	N.D.	/	N.D.	/	5	-----
	Pentabromobiphenyl	N.D.	/	N.D.	/	5	-----
	Hexabromobiphenyl	N.D.	/	N.D.	/	5	-----
	Heptabromobiphenyl	N.D.	/	N.D.	/	5	-----
	Octabromobiphenyl	N.D.	/	N.D.	/	5	-----
	Nonabromobiphenyl	N.D.	/	N.D.	/	5	-----
	Decabromobiphenyl	N.D.	/	N.D.	/	5	-----
	Polybrominated Biphenyls (PBBs)	N.D.	/	N.D.	/	-----	<1000
	Monobromodiphenyl ether	N.D.	/	N.D.	/	5	-----
	Dibromodiphenyl ether	N.D.	/	N.D.	/	5	-----
	Tribromodiphenyl ether	N.D.	/	N.D.	/	5	-----
	Tetrabromodiphenyl ether	N.D.	/	N.D.	/	5	-----
	Pentabromodiphenyl ether	N.D.	/	N.D.	/	5	-----
	Hexabromodiphenyl ether	N.D.	/	N.D.	/	5	-----
	Heptabromodiphenyl ether	N.D.	/	N.D.	/	5	-----
	Octabromodiphenyl ether	N.D.	/	N.D.	/	5	-----
	Nonabromodiphenyl ether	N.D.	/	N.D.	/	5	-----
	Decabromodiphenyl ether	N.D.	/	N.D.	/	5	-----
	Polybrominated Diphenyl ethers (PBDEs)	N.D.	/	N.D.	/	-----	<1000
	Conclusion (P/F)	P	P	P	P	-----	

ITEM	SAMPLE No.	SAMPLE CONCENTRATION (mg/kg)			MDL (mg/kg)	REQUIRED LIMIT (mg/kg)
		5	6	7		
	Cd	N.D.	N.D.	N.D.	2	<100
	Cr(VI)	N.D.	N.D.	N.D.	2	<1000
	Hg	N.D.	N.D.	N.D.	2	<1000
	Pb	N.D.	N.D.	N.D.	2	<1000
	Monobromobiphenyl	N.D.	N.D.	N.D.	5	-----
	Dibromobiphenyl	N.D.	N.D.	N.D.	5	-----
	Tribromobiphenyl	N.D.	N.D.	N.D.	5	-----
	Tetrabromobiphenyl	N.D.	N.D.	N.D.	5	-----
	Pentabromobiphenyl	N.D.	N.D.	N.D.	5	-----
	Hexabromobiphenyl	N.D.	N.D.	N.D.	5	-----
	Heptabromobiphenyl	N.D.	N.D.	N.D.	5	-----
	Octabromobiphenyl	N.D.	N.D.	N.D.	5	-----
	Nonabromobiphenyl	N.D.	N.D.	N.D.	5	-----
	Decabromobiphenyl	N.D.	N.D.	N.D.	5	-----
	Polybrominated Biphenyls (PBBs)	N.D.	N.D.	N.D.	-----	<1000
	Monobromodiphenyl ether	N.D.	N.D.	N.D.	5	-----
	Dibromodiphenyl ether	N.D.	N.D.	N.D.	5	-----
	Tribromodiphenyl ether	N.D.	N.D.	N.D.	5	-----
	Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	5	-----
	Pentabromodiphenyl ether	N.D.	N.D.	N.D.	5	-----
	Hexabromodiphenyl ether	N.D.	N.D.	N.D.	5	-----
	Heptabromodiphenyl ether	N.D.	N.D.	N.D.	5	-----
	Octabromodiphenyl ether	N.D.	N.D.	N.D.	5	-----
	Nonabromodiphenyl ether	N.D.	N.D.	N.D.	5	-----
	Decabromodiphenyl ether	N.D.	N.D.	N.D.	5	-----
	Polybrominated Diphenyl ethers (PBDEs)	N.D.	N.D.	N.D.	-----	<1000
	Conclusion (P/F)	P	P	P	-----	

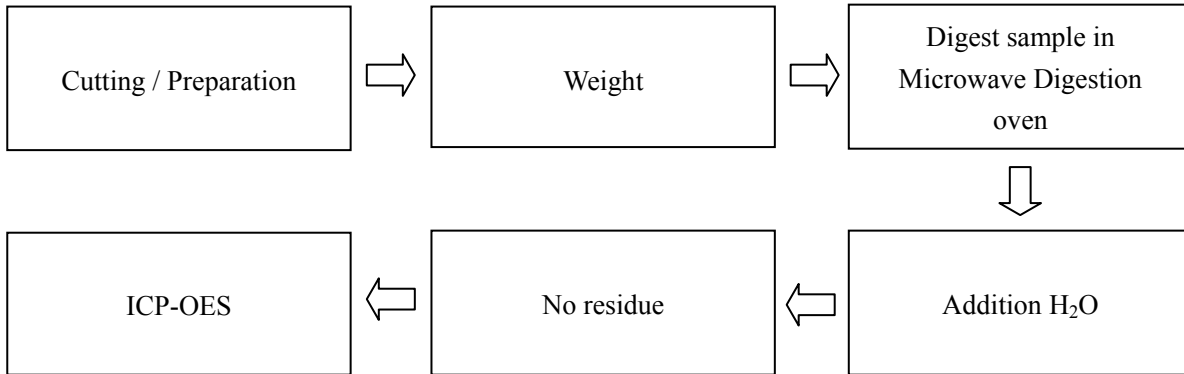
Note: P = Pass, F = Fail, MDL = Method Detection Limit, N.D. = Not Detected(<MDL).

*= According to the standard of IEC 62321:2008, Hexavalent Chromium test on the coating of metal by the method of Boiling Water Extraction, the areage of sample should be 50 cm². If the content of Hexavalent Chromium testing is above or equal to 0.02mg/kg, the results of test indicate positive and contains Cr(VI), otherwise, it indicates negative.

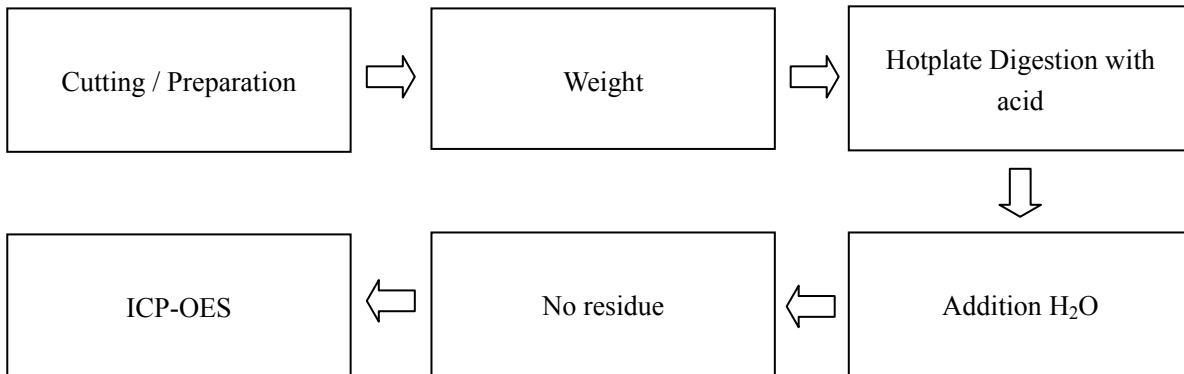
Test Process:

a. Cd,Pb,Hg

Nonmetal:

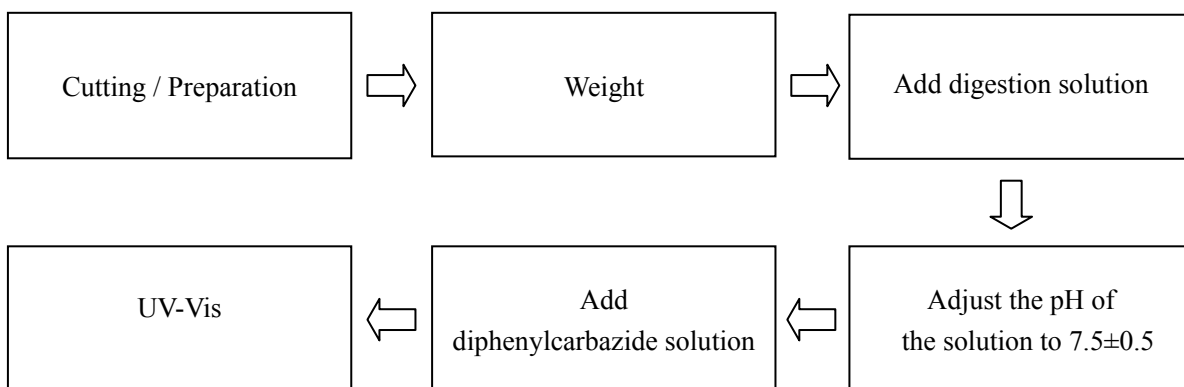


Metal:

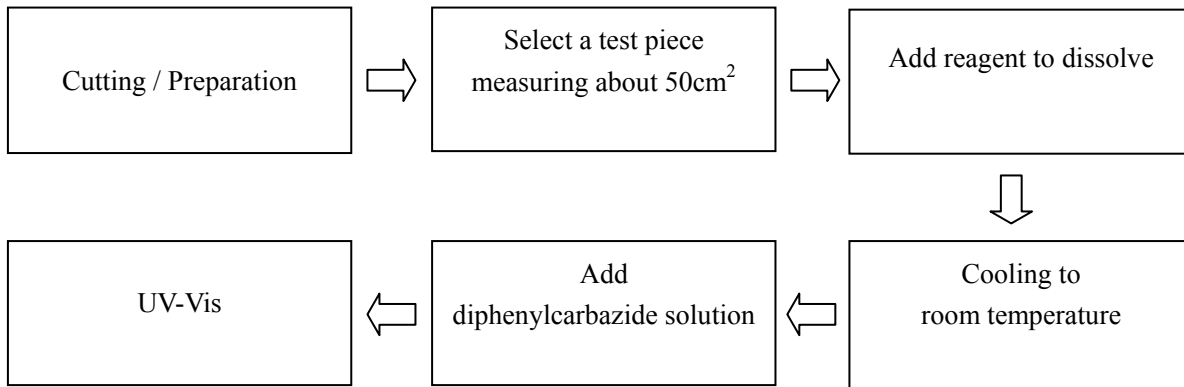


b. Cr⁶⁺

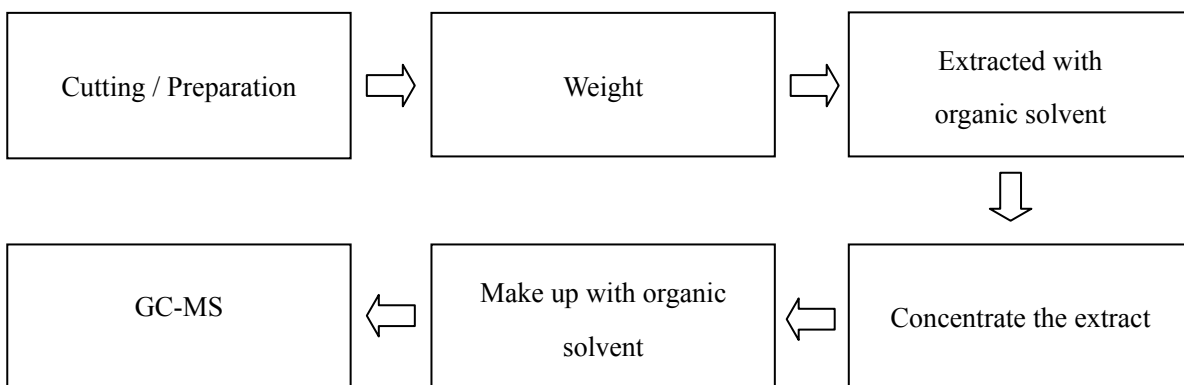
Nonmetal:



Metal:



c. PBBs&PBDEs



List of apparatus:

No.	Name	Model	Calibration Valid Date	USE(√)
1	ICP-OES	VISTA-MPX	2015/09/21	√
2	GC-MS	5975i	2015/09/21	√
3	UV-Vis	UV1100	2015/09/21	√

***** END OF REPORT *****

STATEMENT

1. This test laboratory is accredited by CNAS, Accreditation Certificate No.L1659.
2. The test report is invalid without stamp of laboratory.
3. The test report is invalid without signature of person(s) testing and authorizing.
4. The test report is invalid if erased and corrected.
5. Test results of the report is valid to the test samples if sampling by client.
6. “☆”item cannot be Accredited by CNAS.
7. The test report shall not be reproduced except in full, without written approval of the laboratory.
8. If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

CCIC Southern Electronic Product Testing (Shenzhen) CO., Ltd.

Add: Building 28/29, Shigudong, Xili Industrial Area, Xili Street, Nanshan District, Shenzhen, Guangdong, China (pc: 518055)
<http://www.ccic-set.com> Tel: 0755-86913585, 26701907 Fax: 0755-26701436