



Test Report

Report No : SHBST2014081904YRR-4 Date: Aug. 21, 2014

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Applicant : NINGBO GEMBIRD ELECTRONICS LIMITED

Address : No.160, Dagutang Road, Simen Town, YuyaoCity, Zhejiang, China

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

Sample Name : POWER CORD

Sample Model : PC-186-VDE, PC-184-VDE, PC-189-VDE, PC-189-C19,
PC-187, PC-187-ML12, PC-187-ML6, PC-187-ML7, PC-186-ML12,
PC-186-ML6,PC-186-C19

Sample Received Date : Aug. 18, 2014

Testing Period : Aug. 18, 2014 To Aug. 21, 2014

Test Requested : Selected test (s) in the selected parts as requested by client with the EU Directive 2002/95/EC (Latest directive 2011/65/EU) on the restriction of hazardous substances and Commission Decision 2005/618/EC-(RoHS Directive).

Test Method : Please refer to next page(s).

Test Result : Please refer to next page(s).

Signed for and on behalf of

Andy Zheng/ Technical Director

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Sample Description :

No.	Description	Name
1	Plastic	Black Line Skin Outside
2	Plastic	Blue Line Skin Inside
3	Plastic	Brown Line Skin Inside
4	Plastic	Yellow Green Line Skin Inside
5	Metal	Wire Core
6	Metal	Metal Plug
7	Plastic	Black Plastic
8	Metal	Sheet Metal

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Test Result(No.1):

Test Item(s)	Unit	Test Method (Reference)	Result	MDL	Limit
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-AES	N.D.	2	100
Lead(Pb)	mg/kg	IEC 62321-5:2013, ICP-AES	N.D.	2	1000
Mercury(Hg)	mg/kg	IEC 62321-4:2013, ICP-AES	N.D.	2	1000
Hexavalent Chromium(CrVI)	mg/kg	IEC 62321:2008, UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	IEC 62321:2008, GC-MS	N.D.	--	1000
Monobromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Dibromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Tribromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Tetrabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Pentabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Hexabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Heptabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Octabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Nonabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Decabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Sum of PBDEs	mg/kg	IEC 62321:2008, GC-MS	N.D.	--	1000
Monobromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Dibromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Tribromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Tetrabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Pentabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Hexabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Heptabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Octabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Nonabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Decabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--

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Test Result(No.2):

Test Item(s)	Unit	Test Method (Reference)	Result	MDL	Limit
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-AES	N.D.	2	100
Lead(Pb)	mg/kg	IEC 62321-5:2013, ICP-AES	N.D.	2	1000
Mercury(Hg)	mg/kg	IEC 62321-4:2013, ICP-AES	N.D.	2	1000
Hexavalent Chromium(CrVI)	mg/kg	IEC 62321:2008, UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	IEC 62321:2008, GC-MS	N.D.	--	1000
Monobromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Dibromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Tribromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Tetrabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Pentabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Hexabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Heptabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Octabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Nonabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Decabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Sum of PBDEs	mg/kg	IEC 62321:2008, GC-MS	N.D.	--	1000
Monobromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Dibromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Tribromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Tetrabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Pentabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Hexabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Heptabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Octabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Nonabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Decabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--

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Test Result(No.3):

Test Item(s)	Unit	Test Method (Reference)	Result	MDL	Limit
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-AES	N.D.	2	100
Lead(Pb)	mg/kg	IEC 62321-5:2013, ICP-AES	N.D.	2	1000
Mercury(Hg)	mg/kg	IEC 62321-4:2013, ICP-AES	N.D.	2	1000
Hexavalent Chromium(CrVI)	mg/kg	IEC 62321:2008, UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	IEC 62321:2008, GC-MS	N.D.	--	1000
Monobromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Dibromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Tribromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Tetrabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Pentabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Hexabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Heptabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Octabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Nonabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Decabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Sum of PBDEs	mg/kg	IEC 62321:2008, GC-MS	N.D.	--	1000
Monobromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Dibromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Tribromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Tetrabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Pentabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Hexabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Heptabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Octabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Nonabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Decabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--

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Test Result(No.4):

Test Item(s)	Unit	Test Method (Reference)	Result	MDL	Limit
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-AES	N.D.	2	100
Lead(Pb)	mg/kg	IEC 62321-5:2013, ICP-AES	N.D.	2	1000
Mercury(Hg)	mg/kg	IEC 62321-4:2013, ICP-AES	N.D.	2	1000
Hexavalent Chromium(CrVI)	mg/kg	IEC 62321:2008, UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	IEC 62321:2008, GC-MS	N.D.	--	1000
Monobromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Dibromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Tribromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Tetrabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Pentabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Hexabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Heptabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Octabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Nonabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Decabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Sum of PBDEs	mg/kg	IEC 62321:2008, GC-MS	N.D.	--	1000
Monobromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Dibromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Tribromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Tetrabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Pentabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Hexabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Heptabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Octabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Nonabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Decabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--

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Test Result(No.5):

Test Item(s)	Unit	Test Method (Reference)	Result	MDL	Limit
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-AES	N.D.	2	100
Lead(Pb)	mg/kg	IEC 62321-5:2013, ICP-AES	N.D.	2	1000
Mercury(Hg)	mg/kg	IEC 62321-4:2013, ICP-AES	N.D.	2	1000
Hexavalent Chromium(CrVI)	mg/kg	IEC 62321:2008, UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	IEC 62321:2008, GC-MS	--	--	1000
Monobromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Dibromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Tribromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Tetrabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Pentabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Hexabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Heptabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Octabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Nonabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Decabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Sum of PBDEs	mg/kg	IEC 62321:2008, GC-MS	--	--	1000
Monobromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Dibromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Tribromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Tetrabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Pentabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Hexabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Heptabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Octabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Nonabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Decabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--

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Test Result(No.6):

Test Item(s)	Unit	Test Method (Reference)	Result	MDL	Limit
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-AES	N.D.	2	100
Lead(Pb)	mg/kg	IEC 62321-5:2013, ICP-AES	68	2	1000
Mercury(Hg)	mg/kg	IEC 62321-4:2013, ICP-AES	N.D.	2	1000
Hexavalent Chromium(CrVI)	mg/kg	IEC 62321:2008, UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	IEC 62321:2008, GC-MS	--	--	1000
Monobromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Dibromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Tribromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Tetrabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Pentabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Hexabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Heptabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Octabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Nonabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Decabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Sum of PBDEs	mg/kg	IEC 62321:2008, GC-MS	--	--	1000
Monobromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Dibromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Tribromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Tetrabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Pentabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Hexabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Heptabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Octabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Nonabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Decabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--

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Test Result(No.7):

Test Item(s)	Unit	Test Method (Reference)	Result	MDL	Limit
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-AES	N.D.	2	100
Lead(Pb)	mg/kg	IEC 62321-5:2013, ICP-AES	N.D.	2	1000
Mercury(Hg)	mg/kg	IEC 62321-4:2013, ICP-AES	N.D.	2	1000
Hexavalent Chromium(CrVI)	mg/kg	IEC 62321:2008, UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	IEC 62321:2008, GC-MS	N.D.	--	1000
Monobromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Dibromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Tribromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Tetrabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Pentabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Hexabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Heptabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Octabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Nonabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Decabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Sum of PBDEs	mg/kg	IEC 62321:2008, GC-MS	N.D.	--	1000
Monobromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Dibromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Tribromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Tetrabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Pentabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Hexabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Heptabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Octabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Nonabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--
Decabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	N.D.	5	--

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Test Result(No.8):

Test Item(s)	Unit	Test Method (Reference)	Result	MDL	Limit
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-AES	N.D.	2	100
Lead(Pb)	mg/kg	IEC 62321-5:2013, ICP-AES	N.D.	2	1000
Mercury(Hg)	mg/kg	IEC 62321-4:2013, ICP-AES	N.D.	2	1000
Hexavalent Chromium(CrVI)	mg/kg	IEC 62321:2008, UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	IEC 62321:2008, GC-MS	--	--	1000
Monobromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Dibromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Tribromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Tetrabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Pentabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Hexabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Heptabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Octabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Nonabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Decabromobiphenyl	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Sum of PBDEs	mg/kg	IEC 62321:2008, GC-MS	--	--	1000
Monobromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Dibromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Tribromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Tetrabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Pentabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Hexabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Heptabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Octabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Nonabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--
Decabromodiphenyl ether	mg/kg	IEC 62321:2008, GC-MS	--	5	--

- Note:**
1. mg/kg= ppm
 2. N.D.= Not Detected(<MDL)
 3. MDL = Method Detection Limit
 4. -- = No Testing

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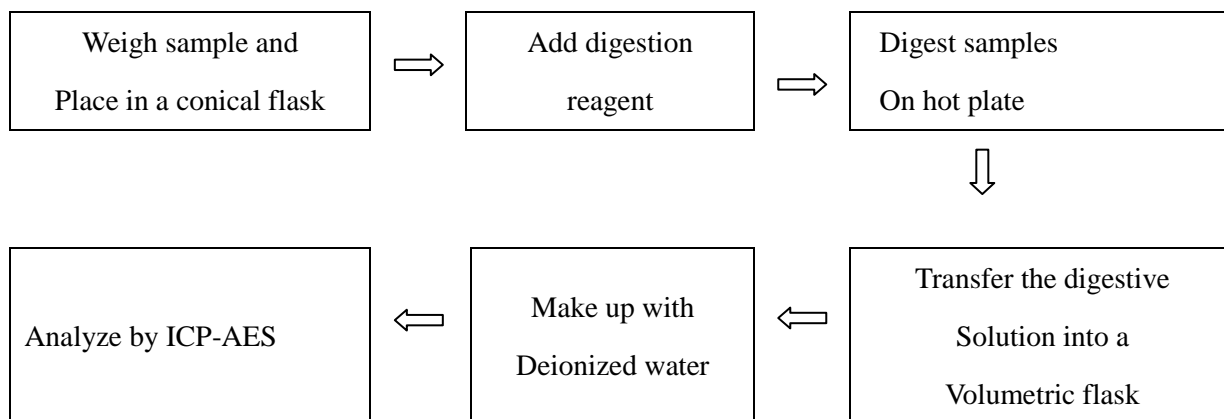
Test Report

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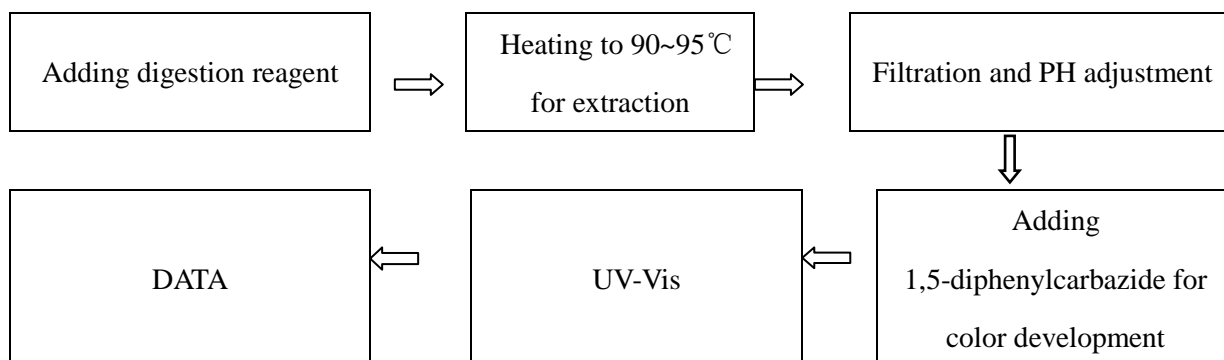
Test Process:

1. Test for Cd/Pb Content

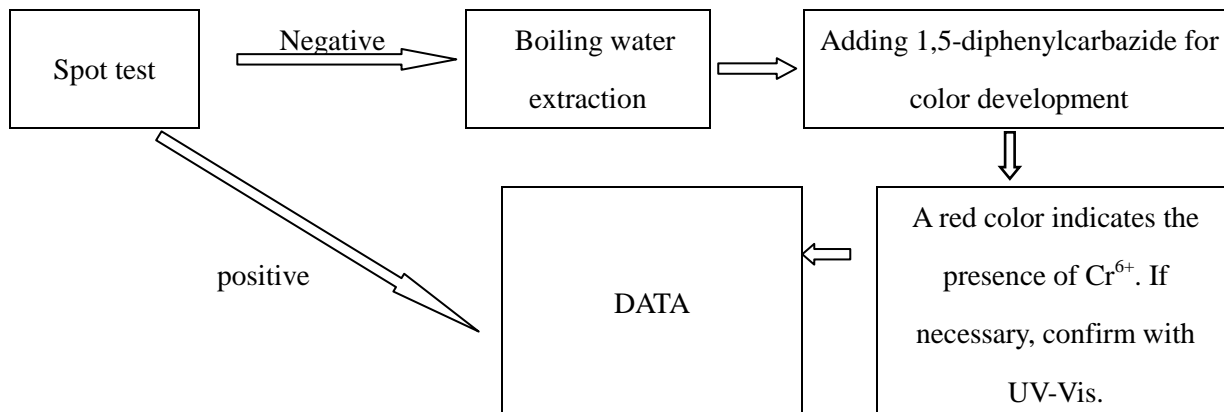


2. Test for Chromium(VI) Content

Nonmetallic material



Metallic material



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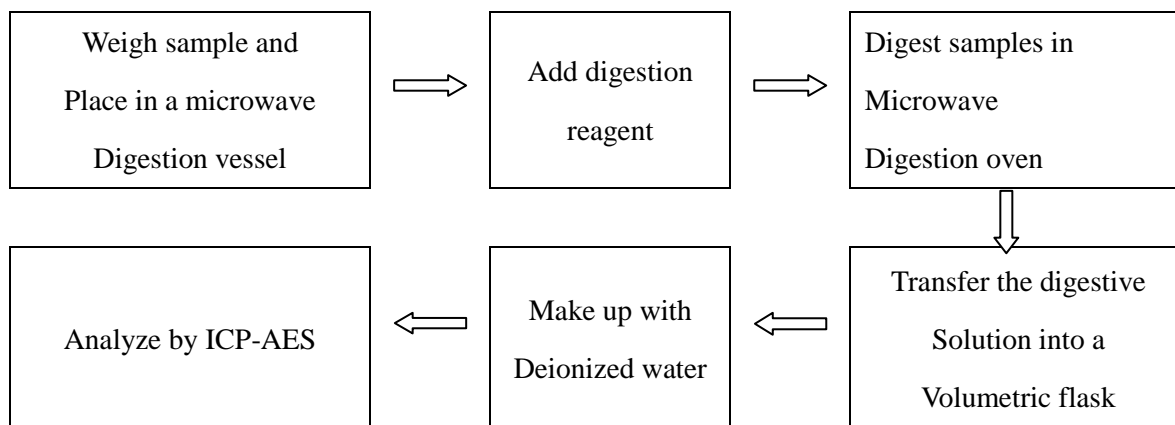


Test Report

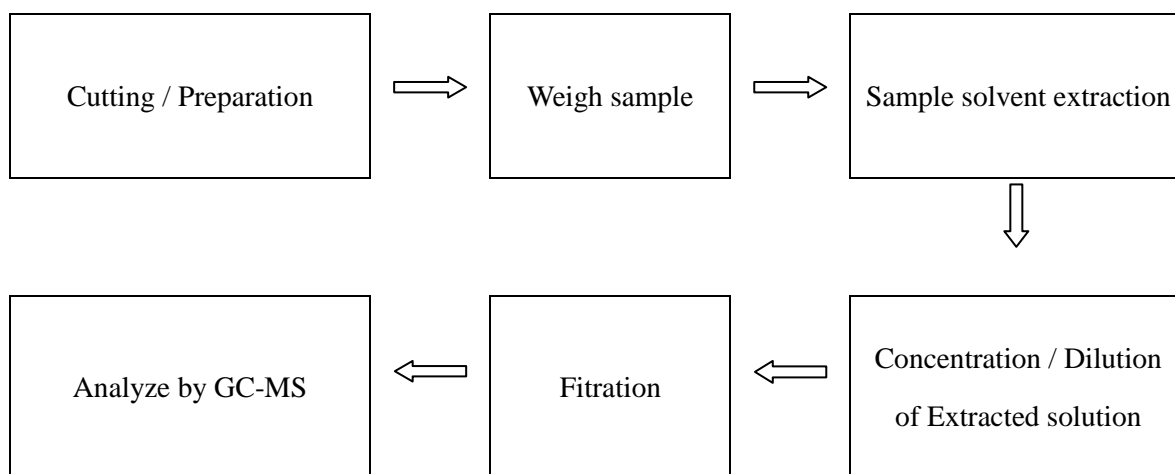
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3. Test for Hg Contents



4. Test for PBBs, PBDES



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Sample Photo:



*** End of Report ***

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