



Test Report

Report No.: SHBST17058103000020YRR-4

Date: Jun.15, 2017

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Applicant :

Address :

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

Sample Name : COB torch

Sample Model : P513, BXCOB-1, BXCOB-2, BXCOB-5, BXCOB-6

Sample Received Date : Jun.12, 2017

Testing Period : Jun.12, 2017 To Jun.15, 2017

Test Requested : Selected test (s) in the selected parts as requested by client with the RoHS Directive 2011/65/EU Annex II (EU) 2015/863 .

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	Metal	Red Metal
2	Cloth	Rope
3	Metal	Suspension Loop
4	Silicone	Black Silicone Button
5	Plastic	Switch
6	Metal	Spring
7	Plastic	White Plastic
8	Plastic	Black Plastic
9	PCB	PCB
10	LED	LED
11	Plastic	Clear Plastic

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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 62321-7-1:2015, UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	IEC 62321-6:2015, GC-MS	--	--	1000
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Sum of PBDEs	mg/kg	IEC 62321-6:2015, GC-MS	--	--	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Phthalates					
Dibutyl Phthalate(DBP)	mg/kg	EN14372:2004, GC-MS	--	30	1000
Butyl benzyl phthalate (BBP)	mg/kg	EN14372:2004, GC-MS	--	30	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	EN14372:2004, GC-MS	--	30	1000
Diisobutyl phthalate (DIBP)	mg/kg	EN14372:2004, GC-MS	--	30	1000

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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 62321-7-1:2015, UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	--	1000
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Sum of PBDEs	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	--	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Phthalates					
Dibutyl Phthalate(DBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Butyl benzyl phthalate (BBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Diisobutyl phthalate (DIBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000

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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 62321-7-1:2015, UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	IEC 62321-6:2015, GC-MS	--	--	1000
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Sum of PBDEs	mg/kg	IEC 62321-6:2015, GC-MS	--	--	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Phthalates					
Dibutyl Phthalate(DBP)	mg/kg	EN14372:2004, GC-MS	--	30	1000
Butyl benzyl phthalate (BBP)	mg/kg	EN14372:2004, GC-MS	--	30	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	EN14372:2004, GC-MS	--	30	1000
Diisobutyl phthalate (DIBP)	mg/kg	EN14372:2004, GC-MS	--	30	1000

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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 62321-7-1:2015, UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	--	1000
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Sum of PBDEs	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	--	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Phthalates					
Dibutyl Phthalate(DBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Butyl benzyl phthalate (BBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Diisobutyl phthalate (DIBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000

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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 62321-7-1:2015, UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	--	1000
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Sum of PBDEs	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	--	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Phthalates					
Dibutyl Phthalate(DBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Butyl benzyl phthalate (BBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Diisobutyl phthalate (DIBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000

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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	N.D.	2	1000
Mercury(Hg)	mg/kg	IEC 62321-4:2013, ICP-AES	N.D.	2	1000
Hexavalent Chromium(CrVI)	mg/kg	IEC 62321-7-1:2015, UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	IEC 62321-6:2015, GC-MS	--	--	1000
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Sum of PBDEs	mg/kg	IEC 62321-6:2015, GC-MS	--	--	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	--	5	--
Phthalates					
Dibutyl Phthalate(DBP)	mg/kg	EN14372:2004, GC-MS	--	30	1000
Butyl benzyl phthalate (BBP)	mg/kg	EN14372:2004, GC-MS	--	30	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	EN14372:2004, GC-MS	--	30	1000
Diisobutyl phthalate (DIBP)	mg/kg	EN14372:2004, GC-MS	--	30	1000

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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 62321-7-1:2015, UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	--	1000
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Sum of PBDEs	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	--	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Phthalates					
Dibutyl Phthalate(DBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Butyl benzyl phthalate (BBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Diisobutyl phthalate (DIBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000

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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 62321-7-1:2015, UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	--	1000
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Sum of PBDEs	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	--	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Phthalates					
Dibutyl Phthalate(DBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Butyl benzyl phthalate (BBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Diisobutyl phthalate (DIBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000

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Test Result(No.9):

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 62321-7-1:2015, UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	--	1000
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Sum of PBDEs	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	--	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Phthalates					
Dibutyl Phthalate(DBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Butyl benzyl phthalate (BBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Diisobutyl phthalate (DIBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000

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Test Result(No.10):

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 62321-7-1:2015, UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	--	1000
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Sum of PBDEs	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	--	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Phthalates					
Dibutyl Phthalate(DBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Butyl benzyl phthalate (BBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Diisobutyl phthalate (DIBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000

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Test Result(No.11):

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 62321-7-1:2015, UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	--	1000
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Sum of PBDEs	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	--	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	--
Phthalates					
Dibutyl Phthalate(DBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Butyl benzyl phthalate (BBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000
Diisobutyl phthalate (DIBP)	mg/kg	EN14372:2004, GC-MS	N.D.	30	1000

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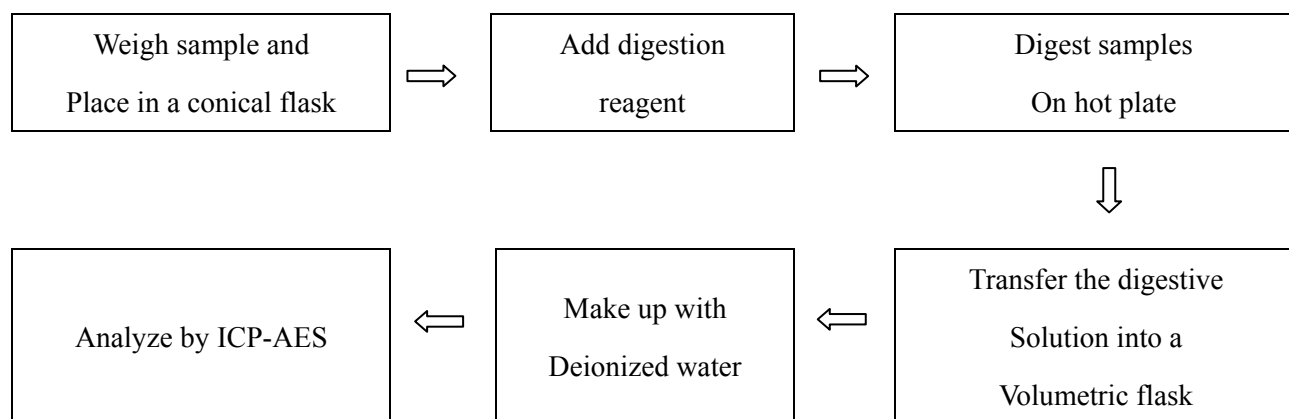
Date: Jun.15, 2017

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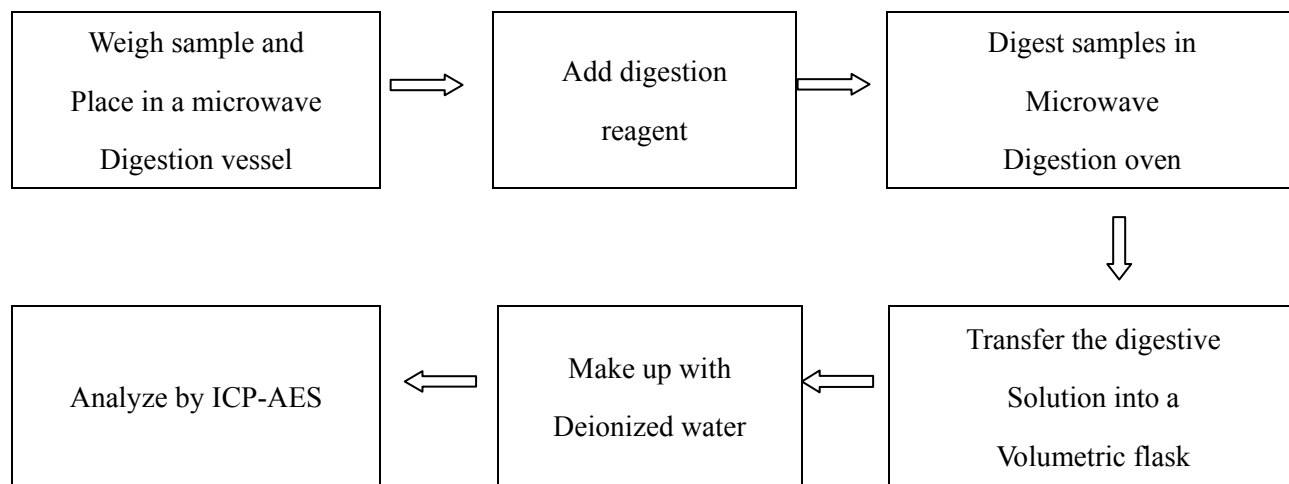
- Note:**
1. mg/kg= ppm
 2. N.D.= Not Detected(<MDL)
 3. MDL = Method Detection Limit
 4. -- = No Testing

Test Process:

1. Test for Cd/Pb Content



2. Test for Hg Content



3. Test for Chromium (VI) Content

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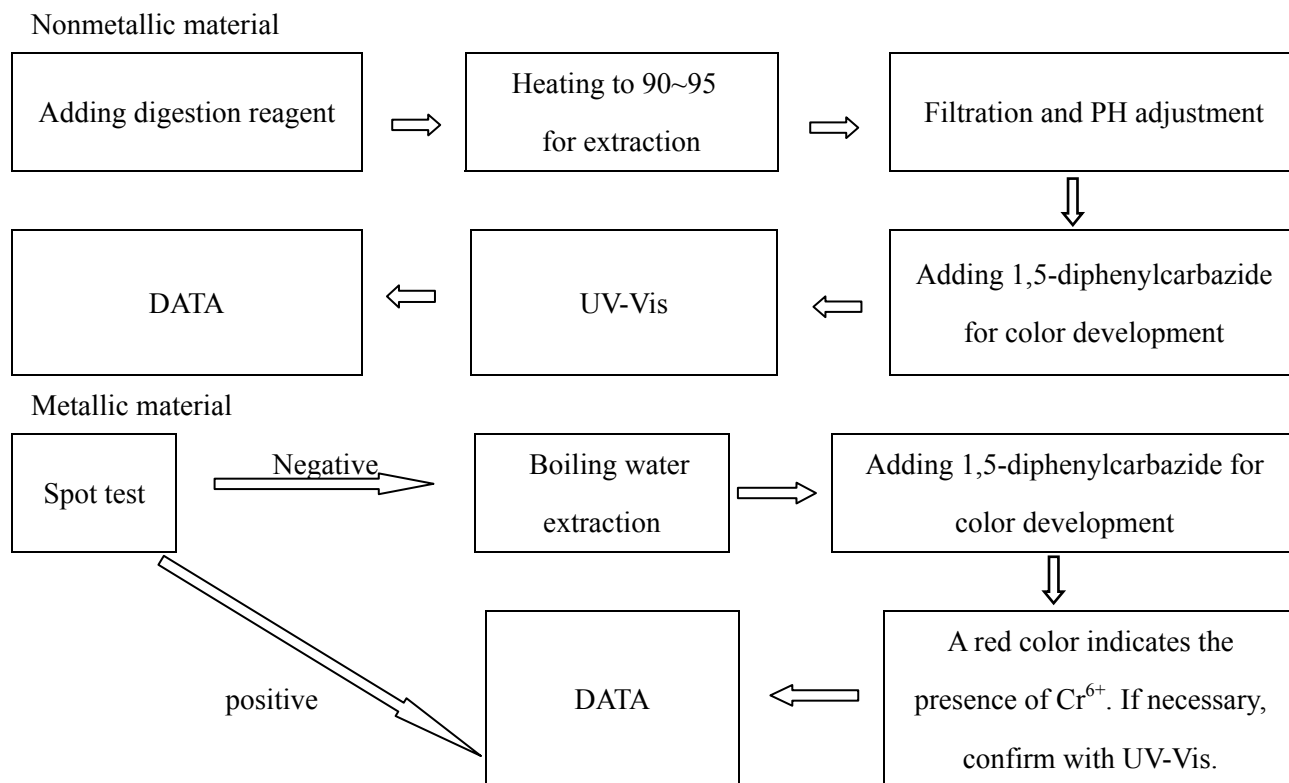


Test Report

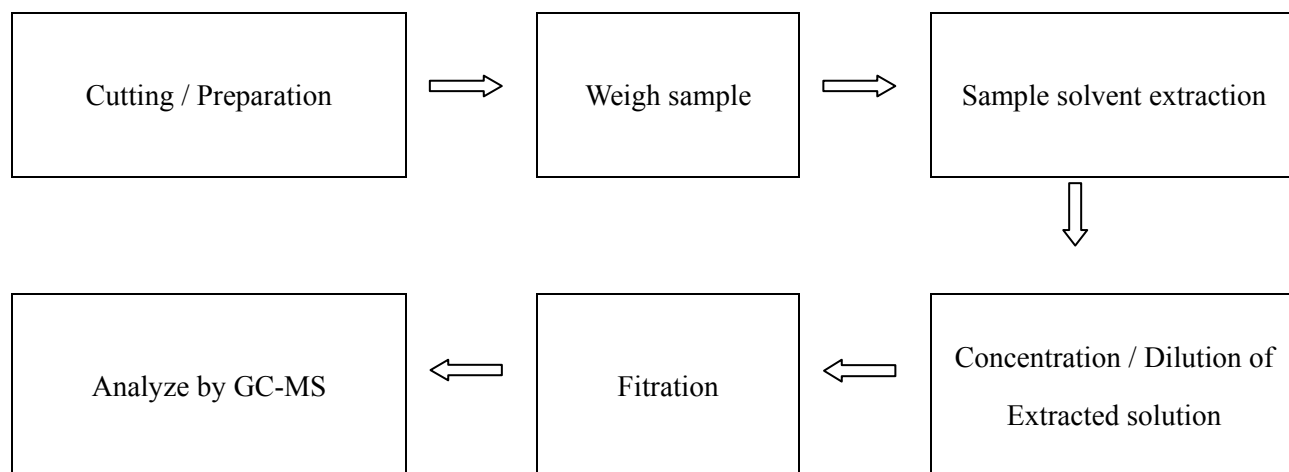
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4. Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content



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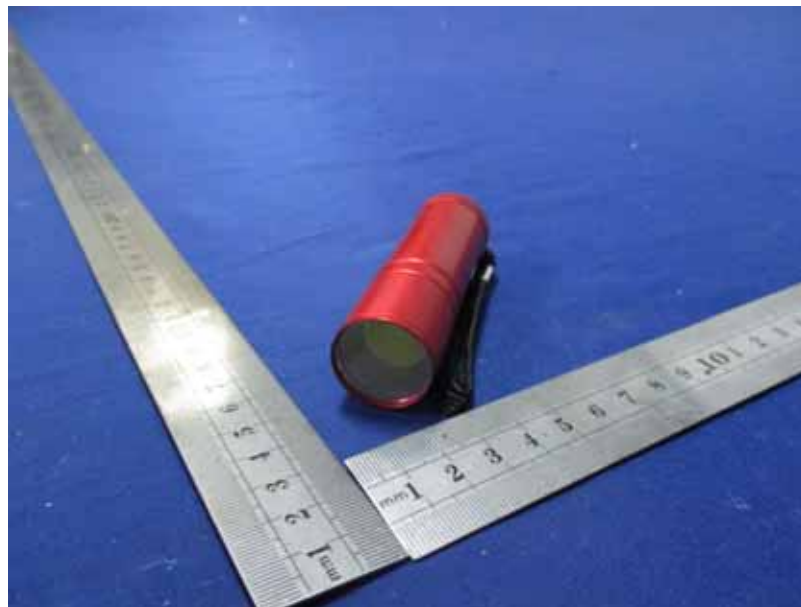
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Sample Photo:



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