



Report No:

RoHS1602003

File reference No:

2016-02-17

Applicant:

Barebones Living

Product:

Beacon Lantern

Model No:

LIV-287/288

Brand Name:

Barebones

Test Conclusions:

The report is organized on the reports submitted by clients, the test data as followings and found in compliance with RoHS Directive.(2011/65/EU)

Approved By

Jack Chung

Manager

Dated:

2016-02-17

Test Conclusions appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

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Date:2016-02-17



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1 General Details

1.1 Test Lab Details

Name:

SHENZHEN TIMEWAY TESTING LABORATORIES

Address:

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District,

Shenzhen, Guangdong, China

Tel:

(+86 755)8344 8688

Fax:

(+86 755)8344 2996

1.2 Applicant Details

Applicant:

Barebones Living

Address:

14513 South 980 West Suite 300 Bluffdale, UTAH 84065, USA

Tel:

Fax:

...

1.3 Description of EUT

Product:

Beacon Lantern

Manufacturer:

Ningbo Hisheen Electrical Co., Ltd

Address:

Xidian Industry Area, Ninghai, Ningbo, Zhejiang, China

Basic Model:

LIV-287/288

Additional Model

Brand Name:

Barebones

1.4 Submitted Sample

1 Sample

1.5 Test Time

2016-01-30 to 2016-02-04

1.6 Test Engineer

The sample tested by

1.7 Verify Engineer

The report verified by

Print Name: Ken.wang

Print Name: Jack Chung

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1.8 Possible test case verdicts

- 1. N.D.= NOT DETECTED (<2ppm)
- 2. ppm = PART PER MILLION
- 3. ppm = mg/kg
- 4. "-" = Not Regulated

1.9 General remark

The test conclusions presented in this report relate only to the object tested.

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The Difference between models: The proportions and contents for the material are same.

Remark: This combined report was organized on the component report applicant provided. Some of the component reports were not provided.

RoHS Maximum Concentration Values (MCV's) are based on current EU legislation; Directive 2005/628/EC. From July 1st, 2006 on, new electrical and electronic products may not exceed the following limit values for the substances listed below. RoHS exemptions are based on current EU legislation; Directive 2011/65/EU, 2005/717/EC, 2005/747/EC, 2006/310/EC, 2006/690/EC, 2006/691/EC, 2006/692/EC, 2008/385/EC, 2009/443/EC, 2010/122/EU, 2010/571/EU and 2011/534/EU.

The test methods are recommended according to IEC 62321: 2008,

2 Test Requested and Methods

2.1 Test requested

- 1) Determination of lead content in the submitted samples
- 2) Determination of cadmium content in the submitted samples
- 3) Determination of mercury content in the submitted samples
- 4) Determination of chromium(VI) content in the submitted samples
- 5) Determination of polybrominated biphenyls (PBB)& polybrominated diphenyl ethers (PBDE) content in the submitted samples

2.2 Test method

- 1) Pb, Cd, Hg, Cr(VI) & Br with reference to IEC 62321: 2008, Analysis was performed by EDX.
- 2) Pb, Cd, Hg, Cr(VI) with reference to IEC 62321: 2008, Analysis was performed by ICP-OES.
- 3) PBBs &PBDEs with reference to IEC 62321: 2008, Analysis was performed by GC-MS.

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3 Data Resource

Item	Parts Name
1	USB PORT (metal)
2	USB PORT (plastic)
3	USB PORT (metal wire)
4	USB PORT (lead wire-plastic)
5	HANDLE (metal)
6	Transparent cover
7	Battery cabin (metalcoating)
8	Battery cabin (plastic)
9	Metal cover
10	PCB (Aluminum PCB)
11	PCB (LED)
12	PCB (solder)
13	Spring
14	Internal lead wire (connectorplastic)
15	Internal lead wire (connectormetal)
16	Internal lead wire (metal wire)
17	Internal lead wire (Lead wirePVC)
18	Screw
19	Plastic ball
20	Switch plastic cover
21	Screw on switch plastic cover
22	Black plastic cover
23	Mian PCB board
24	E-cap on mian PCB board
25	IC body on mian PCB board
26	Bead on mian PCB board
27	Sloder on mian PCB board
28	Chip components on mian PCB board
29	Insulation of USB
30	White Plastic of USB
31	Metal of USB
32	Metal of tie
33	Insulation of tie

Please see the appendix of the sample photos.

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4 Test Conclusions			
4.1 USB PORT (metal)			
Testing item	Test Results	Limit	Photo
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	
Mercury (Hg)	<5ppm	1000ppm	
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	



4.2 USB PORT (plastic) Testing item	Test Results	Limit
Cadmium (Cd)	<5ppm	100ppm
Lead (Pb)	<5ppm	1000ppm
Mercury (Hg)	<5ppm	1000ppm
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm
Sum of Polybrominated Biphenyl (PBBs)	<5ppm	1000ppm
Monobromobiphenyl (MonoBB)	<5ppm	
Dibromobiphenyl (DiBB)	<5ppm	
Tribromobiphenyl (TriBB)	<5ppm	
Tetrabromobiphenyl (TeraBB)	<5ppm	
Pentabromobiphenyl (PentaBB)	<5ppm	
Hexabromobiphenyl (HexaBB)	<5ppm	
Heptabromobiphenyl (HeptaBB)	<5ppm	
Octabromobiphenyl (OctaBB)	<5ppm	
Nonabromobiphenyl (NonaBB)	<5ppm	
Decabromobiphenyl (DecaBB)	<5ppm	
Sum of Polybrominated Diphenyl ether (PBDEs)	<5ppm	1000ppm
Monobromodiphenyl ether(MonoBDE)	<5ppm	
Dibromodiphenyl ether(DiBDE)	<5ppm	
Tribromodiphenyl ether(TriBDE)	<5ppm	
Tetrabromodiphenyl ether(TetraBDE)	<5ppm	
Pentabromodiphenyl ether(PentaBDE)	<5ppm	
Hexabromodiphenyl ether(HexaBDE)	<5ppm	
Heptabromodiphenyl ether(HeptaBDE)	<5ppm	
Octabromodiphenyl ether(OctaBDE)	<5ppm	
Nonabromodiphenyl ether(NonaBDE)	<5ppm	
Decabromodiphenyl ether(DecaBDE)	<5ppm	

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4.3 USB PORT (metal wire)			
Testing item	Test Results	Limit	Photo
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	
Mercury (Hg)	<5ppm	1000ppm	
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	



Testing item	Test Results	Limit
Cadmium (Cd)	<5ppm	100ppm
Lead (Pb)	<5ppm	1000ppm
Mercury (Hg)	<5ppm	1000ppm
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm
Sum of Polybrominated Biphenyl (PBBs)	<5ppm	1000ppm
Monobromobiphenyl (MonoBB)	<5ppm	
Dibromobiphenyl (DiBB)	<5ppm	
Tribromobiphenyl (TriBB)	<5ppm	
Tetrabromobiphenyl (TeraBB)	<5ppm	
Pentabromobiphenyl (PentaBB)	<5ppm	
Hexabromobiphenyl (HexaBB)	<5ppm	
Heptabromobiphenyl (HeptaBB)	<5ppm	
Octabromobiphenyl (OctaBB)	<5ppm	
Nonabromobiphenyl (NonaBB)	<5ppm	
Decabromobiphenyl (DecaBB)	<5ppm	
Sum of Polybrominated Diphenyl ether (PBDEs)	<5ppm	1000ppm
Monobromodiphenyl ether(MonoBDE)	<5ppm	
Dibromodiphenyl ether(DiBDE)	<5ppm	
Tribromodiphenyl ether(TriBDE)	<5ppm	
Tetrabromodiphenyl ether(TetraBDE)	<5ppm	
Pentabromodiphenyl ether(PentaBDE)	<5ppm	
Hexabromodiphenyl ether(HexaBDE)	<5ppm	
Heptabromodiphenyl ether(HeptaBDE)	<5ppm	
Octabromodiphenyl ether(OctaBDE)	<5ppm	
Nonabromodiphenyl ether(NonaBDE)	<5ppm	
Decabromodiphenyl ether(DecaBDE)	<5ppm	

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4.5 HANDLE (metal)			
Testing item	Test Results	Limit	Photo
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	
Mercury (Hg)	<5ppm	1000ppm	HE WAS A STATE OF THE STATE OF
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	BAREBU



Testing item	Test Results	Limit
Cadmium (Cd)	<5ppm	100ppm
Lead (Pb)	<5ppm	1000ppm
Mercury (Hg)	<5ppm	1000ppm
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm
Sum of Polybrominated Biphenyl (PBBs)	<5ppm	1000ppm
Monobromobiphenyl (MonoBB)	<5ppm	
Dibromobiphenyl (DiBB)	<5ppm	
Tribromobiphenyl (TriBB)	<5ppm	
Tetrabromobiphenyl (TeraBB)	<5ppm	
Pentabromobiphenyl (PentaBB)	<5ppm	
Hexabromobiphenyl (HexaBB)	<5ppm	
Heptabromobiphenyl (HeptaBB)	<5ppm	
Octabromobiphenyl (OctaBB)	<5ppm	-
Nonabromobiphenyl (NonaBB)	<5ppm	
Decabromobiphenyl (DecaBB)	<5ppm	
Sum of Polybrominated Diphenyl ether (PBDEs)	<5ppm	1000ppm
Monobromodiphenyl ether(MonoBDE)	<5ppm	1
Dibromodiphenyl ether(DiBDE)	<5ppm	
Tribromodiphenyl ether(TriBDE)	<5ppm	-
Tetrabromodiphenyl ether(TetraBDE)	<5ppm	1
Pentabromodiphenyl ether(PentaBDE)	<5ppm	1
Hexabromodiphenyl ether(HexaBDE)	<5ppm	
Heptabromodiphenyl ether(HeptaBDE)	<5ppm	
Octabromodiphenyl ether(OctaBDE)	<5ppm	1
Nonabromodiphenyl ether(NonaBDE)	<5ppm	
Decabromodiphenyl ether(DecaBDE)	<5ppm	

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4.7 Battery cabin (metalcoating)			
Testing item	Test Results	Limit	Photo
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	
Mercury (Hg)	<5ppm	1000ppm	
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	



4.8 Battery cabin (plastic)	I		
Testing item	Test Results	Limit	Photo
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	
Mercury (Hg)	<5ppm	1000ppm	
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	
Sum of Polybrominated Biphenyl (PBBs)	<5ppm	1000ppm	
Monobromobiphenyl (MonoBB)	<5ppm		
Dibromobiphenyl (DiBB)	<5ppm		
Tribromobiphenyl (TriBB)	<5ppm		
Tetrabromobiphenyl (TeraBB)	<5ppm		
Pentabromobiphenyl (PentaBB)	<5ppm		
Hexabromobiphenyl (HexaBB)	<5ppm		
Heptabromobiphenyl (HeptaBB)	<5ppm		
Octabromobiphenyl (OctaBB)	<5ppm		
Nonabromobiphenyl (NonaBB)	<5ppm		
Decabromobiphenyl (DecaBB)	<5ppm		
Sum of Polybrominated Diphenyl ether (PBDEs)	<5ppm	1000ppm	
Monobromodiphenyl ether(MonoBDE)	<5ppm		
Dibromodiphenyl ether(DiBDE)	<5ppm		
Tribromodiphenyl ether(TriBDE)	<5ppm		
Tetrabromodiphenyl ether(TetraBDE)	<5ppm		
Pentabromodiphenyl ether(PentaBDE)	<5ppm		
Hexabromodiphenyl ether(HexaBDE)	<5ppm		
Heptabromodiphenyl ether(HeptaBDE)	<5ppm		
Octabromodiphenyl ether(OctaBDE)	<5ppm		
Nonabromodiphenyl ether(NonaBDE)	<5ppm		
Decabromodiphenyl ether(DecaBDE)	<5ppm		

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Testing item	Test Results	Limit	Photo
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	
Mercury (Hg)	<5ppm	1000ppm	
			O BAREBUNES O
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	

Testing item	Test Results	Limit	Photo
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	
Mercury (Hg)	<5ppm	1000ppm	
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	
Sum of Polybrominated Biphenyl (PBBs)	<5ppm	1000ppm	

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4.11 PCB (LED)			
Testing item	Test Results	Limit	Photo
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	
Mercury (Hg)	<5ppm	1000ppm	
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	
Sum of Polybrominated Biphenyl (PBBs)	<5ppm	1000ppm	

Testing item	Test Results	Limit	Photo
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	
Mercury (Hg)	<5ppm	1000ppm	
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	
Sum of Polybrominated Biphenyl (PBBs)	<5ppm	1000ppm	

4.13 Spring			
Testing item	Test Results	Limit	Photo
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	
Mercury (Hg)	<5ppm	1000ppm	
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	
		1000ppm	
Sum of Polybrominated Biphenyl (PBBs)	<5ppm		

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4.14 Internal lead wire (connectorplastic)			
Testing item	Test Results	Limit	
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	ı
Mercury (Hg)	<5ppm	1000ppm	ı
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	L
Sum of Polybrominated Biphenyl (PBBs)	<5ppm	1000ppm	l
Monobromobiphenyl (MonoBB)	<5ppm		
Dibromobiphenyl (DiBB)	<5ppm		
Tribromobiphenyl (TriBB)	<5ppm		
Tetrabromobiphenyl (TeraBB)	<5ppm		
Pentabromobiphenyl (PentaBB)	<5ppm		
Hexabromobiphenyl (HexaBB)	<5ppm		
Heptabromobiphenyl (HeptaBB)	<5ppm		
Octabromobiphenyl (OctaBB)	<5ppm		
Nonabromobiphenyl (NonaBB)	<5ppm		
Decabromobiphenyl (DecaBB)	<5ppm		
Sum of Polybrominated Diphenyl ether (PBDEs)	<5ppm	1000ppm	L
Monobromodiphenyl ether(MonoBDE)	<5ppm		
Dibromodiphenyl ether(DiBDE)	<5ppm		
Tribromodiphenyl ether(TriBDE)	<5ppm		
Tetrabromodiphenyl ether(TetraBDE)	<5ppm		
Pentabromodiphenyl ether(PentaBDE)	<5ppm		
Hexabromodiphenyl ether(HexaBDE)	<5ppm		
Heptabromodiphenyl ether(HeptaBDE)	<5ppm		
Octabromodiphenyl ether(OctaBDE)	<5ppm		
Nonabromodiphenyl ether(NonaBDE)	<5ppm		
Decabromodiphenyl ether(DecaBDE)	<5ppm]

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4.15 Internal lead wire (connectormetal)			
Testing item	Test Results	Limit	Photo
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	
Mercury (Hg)	<5ppm	1000ppm	ft.
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	

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4.16	Internal lead wire (metal wire)			
	Testing item	Test Results	Limit	Photo
	Cadmium (Cd)	<5ppm	100ppm	
	Lead (Pb)	<5ppm	1000ppm	
	Mercury (Hg)	<5ppm	1000ppm	ft.
	Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	



4.17 Internal lead wire (Lead wirePVC)			
Testing item	Test Results	Limit	Photo
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	
Mercury (Hg)	<5ppm	1000ppm	
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	
Sum of Polybrominated Biphenyl (PBBs)	<5ppm	1000ppm	
Monobromobiphenyl (MonoBB)	<5ppm		
Dibromobiphenyl (DiBB)	<5ppm		
Tribromobiphenyl (TriBB)	<5ppm		
Tetrabromobiphenyl (TeraBB)	<5ppm		
Pentabromobiphenyl (PentaBB)	<5ppm		A STATE OF THE STA
Hexabromobiphenyl (HexaBB)	<5ppm		
Heptabromobiphenyl (HeptaBB)	<5ppm		
Octabromobiphenyl (OctaBB)	<5ppm		.0.5
Nonabromobiphenyl (NonaBB)	<5ppm		
Decabromobiphenyl (DecaBB)	<5ppm		
Sum of Polybrominated Diphenyl ether (PBDEs)	<5ppm	1000ppm	
Monobromodiphenyl ether(MonoBDE)	<5ppm		
Dibromodiphenyl ether(DiBDE)	<5ppm		
Tribromodiphenyl ether(TriBDE)	<5ppm		
Tetrabromodiphenyl ether(TetraBDE)	<5ppm		
Pentabromodiphenyl ether(PentaBDE)	<5ppm		
Hexabromodiphenyl ether(HexaBDE)	<5ppm		
Heptabromodiphenyl ether(HeptaBDE)	<5ppm		
Octabromodiphenyl ether(OctaBDE)	<5ppm		
Nonabromodiphenyl ether(NonaBDE)	<5ppm		
Decabromodiphenyl ether(DecaBDE)	<5ppm		

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4.18 Screw			
Testing item	Test Results	Limit	Photo
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	
Mercury (Hg)	<5ppm	1000ppm	h h
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	



4.19 Plastic ball							
Testing item	Test Results	Limit			Ph	Photo	Photo
Cadmium (Cd)	<5ppm	100ppm					
Lead (Pb)	<5ppm	1000ppm					
Mercury (Hg)	<5ppm	1000ppm					
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm					
Sum of Polybrominated Biphenyl (PBBs)	<5ppm	1000ppm					
Monobromobiphenyl (MonoBB)	<5ppm						
Dibromobiphenyl (DiBB)	<5ppm						
Tribromobiphenyl (TriBB)	<5ppm						
Tetrabromobiphenyl (TeraBB)	<5ppm] _				
Pentabromobiphenyl (PentaBB)	<5ppm						
Hexabromobiphenyl (HexaBB)	<5ppm						
Heptabromobiphenyl (HeptaBB)	<5ppm						
Octabromobiphenyl (OctaBB)	<5ppm						
Nonabromobiphenyl (NonaBB)	<5ppm						
Decabromobiphenyl (DecaBB)	<5ppm						
Sum of Polybrominated Diphenyl ether (PBDEs)	<5ppm	1000ppm		Y K			
Monobromodiphenyl ether(MonoBDE)	<5ppm						
Dibromodiphenyl ether(DiBDE)	<5ppm						
Tribromodiphenyl ether(TriBDE)	<5ppm						
Tetrabromodiphenyl ether(TetraBDE)	<5ppm						
Pentabromodiphenyl ether(PentaBDE)	<5ppm						
Hexabromodiphenyl ether(HexaBDE)	<5ppm						
Heptabromodiphenyl ether(HeptaBDE)	<5ppm						
Octabromodiphenyl ether(OctaBDE)	<5ppm						
Nonabromodiphenyl ether(NonaBDE)	<5ppm						
Decabromodiphenyl ether(DecaBDE)	<5ppm						



4.20 Switch plastic cover		
Testing item	Test Results	Limit
Cadmium (Cd)	<5ppm	100ppm
Lead (Pb)	<5ppm	1000ppm
Mercury (Hg)	<5ppm	1000ppm
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm
Sum of Polybrominated Biphenyl (PBBs)	<5ppm	1000ppm
Monobromobiphenyl (MonoBB)	<5ppm	
Dibromobiphenyl (DiBB)	<5ppm	
Tribromobiphenyl (TriBB)	<5ppm	
Tetrabromobiphenyl (TeraBB)	<5ppm	
Pentabromobiphenyl (PentaBB)	<5ppm	
Hexabromobiphenyl (HexaBB)	<5ppm	
Heptabromobiphenyl (HeptaBB)	<5ppm	
Octabromobiphenyl (OctaBB)	<5ppm	
Nonabromobiphenyl (NonaBB)	<5ppm	
Decabromobiphenyl (DecaBB)	<5ppm	
Sum of Polybrominated Diphenyl ether (PBDEs)	<5ppm	1000ppm
Monobromodiphenyl ether(MonoBDE)	<5ppm	
Dibromodiphenyl ether(DiBDE)	<5ppm	
Tribromodiphenyl ether(TriBDE)	<5ppm	
Tetrabromodiphenyl ether(TetraBDE)	<5ppm	
Pentabromodiphenyl ether(PentaBDE)	<5ppm	
Hexabromodiphenyl ether(HexaBDE)	<5ppm	
Heptabromodiphenyl ether(HeptaBDE)	<5ppm	
Octabromodiphenyl ether(OctaBDE)	<5ppm	
Nonabromodiphenyl ether(NonaBDE)	<5ppm	
Decabromodiphenyl ether(DecaBDE)	<5ppm	

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4.21 Screw on switch plastic cover			
Testing item	Test Results	Limit	Photo
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	
Mercury (Hg)	<5ppm	1000ppm	SHREBONES
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	



4.22 Black plastic cover			
Testing item	Test Results	Limit	
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	
Mercury (Hg)	<5ppm	1000ppm	-
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	
Sum of Polybrominated Biphenyl (PBBs)	<5ppm	1000ppm	
Monobromobiphenyl (MonoBB)	<5ppm		
Dibromobiphenyl (DiBB)	<5ppm		
Tribromobiphenyl (TriBB)	<5ppm		
Tetrabromobiphenyl (TeraBB)	<5ppm		
Pentabromobiphenyl (PentaBB)	<5ppm		
Hexabromobiphenyl (HexaBB)	<5ppm		
Heptabromobiphenyl (HeptaBB)	<5ppm		
Octabromobiphenyl (OctaBB)	<5ppm		
Nonabromobiphenyl (NonaBB)	<5ppm		
Decabromobiphenyl (DecaBB)	<5ppm		
Sum of Polybrominated Diphenyl ether (PBDEs)	<5ppm	1000ppm	-
Monobromodiphenyl ether(MonoBDE)	<5ppm		
Dibromodiphenyl ether(DiBDE)	<5ppm		
Tribromodiphenyl ether(TriBDE)	<5ppm		
Tetrabromodiphenyl ether(TetraBDE)	<5ppm		
Pentabromodiphenyl ether(PentaBDE)	<5ppm		
Hexabromodiphenyl ether(HexaBDE)	<5ppm		
Heptabromodiphenyl ether(HeptaBDE)	<5ppm		
Octabromodiphenyl ether(OctaBDE)	<5ppm		
Nonabromodiphenyl ether(NonaBDE)	<5ppm		
Decabromodiphenyl ether(DecaBDE)	<5ppm		



4.23 Mian PCB board			
Testing item	Test Results	Limit	Photo
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	
Mercury (Hg)	<5ppm	1000ppm	
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	
Sum of Polybrominated Biphenyl (PBBs)	<5ppm	1000ppm	
Monobromobiphenyl (MonoBB)	<5ppm		
Dibromobiphenyl (DiBB)	<5ppm		
Tribromobiphenyl (TriBB)	<5ppm		
Tetrabromobiphenyl (TeraBB)	<5ppm		
Pentabromobiphenyl (PentaBB)	<5ppm		On the second
Hexabromobiphenyl (HexaBB)	<5ppm		
Heptabromobiphenyl (HeptaBB)	<5ppm		
Octabromobiphenyl (OctaBB)	<5ppm		
Nonabromobiphenyl (NonaBB)	<5ppm		
Decabromobiphenyl (DecaBB)	<5ppm		10 m 10 s 15
Sum of Polybrominated Diphenyl ether (PBDEs)	<5ppm	1000ppm	
Monobromodiphenyl ether(MonoBDE)	<5ppm		
Dibromodiphenyl ether(DiBDE)	<5ppm		
Tribromodiphenyl ether(TriBDE)	<5ppm		
Tetrabromodiphenyl ether(TetraBDE)	<5ppm		
Pentabromodiphenyl ether(PentaBDE)	<5ppm		
Hexabromodiphenyl ether(HexaBDE)	<5ppm		
Heptabromodiphenyl ether(HeptaBDE)	<5ppm		
Octabromodiphenyl ether(OctaBDE)	<5ppm		
Nonabromodiphenyl ether(NonaBDE)	<5ppm		
Decabromodiphenyl ether(DecaBDE)	<5ppm		

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4.24 E-cap on mian PCB board			
Testing item	Test Results	Limit	Photo
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	
Mercury (Hg)	<5ppm	1000ppm	
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	
Sum of Polybrominated Biphenyl (PBBs)	<5ppm	1000ppm	
Monobromobiphenyl (MonoBB)	<5ppm		
Dibromobiphenyl (DiBB)	<5ppm		
Tribromobiphenyl (TriBB)	<5ppm		
Tetrabromobiphenyl (TeraBB)	<5ppm		
Pentabromobiphenyl (PentaBB)	<5ppm		(IOV)
Hexabromobiphenyl (HexaBB)	<5ppm		The state of the s
Heptabromobiphenyl (HeptaBB)	<5ppm		
Octabromobiphenyl (OctaBB)	<5ppm		5
Nonabromobiphenyl (NonaBB)	<5ppm		
Decabromobiphenyl (DecaBB)	<5ppm		· · · · · · · · · · · · · · · · · · ·
Sum of Polybrominated Diphenyl ether (PBDEs)	<5ppm	1000ppm	The state of the s
Monobromodiphenyl ether(MonoBDE)	<5ppm		
Dibromodiphenyl ether(DiBDE)	<5ppm		
Tribromodiphenyl ether(TriBDE)	<5ppm		
Tetrabromodiphenyl ether(TetraBDE)	<5ppm		
Pentabromodiphenyl ether(PentaBDE)	<5ppm		
Hexabromodiphenyl ether(HexaBDE)	<5ppm		
Heptabromodiphenyl ether(HeptaBDE)	<5ppm		
Octabromodiphenyl ether(OctaBDE)	<5ppm		
Nonabromodiphenyl ether(NonaBDE)	<5ppm		
Decabromodiphenyl ether(DecaBDE)	<5ppm		



4.25 IC body on mian PCB board			
Testing item	Test Results	Limit	Photo
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	
Mercury (Hg)	<5ppm	1000ppm	
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	
Sum of Polybrominated Biphenyl (PBBs)	<5ppm	1000ppm	
Monobromobiphenyl (MonoBB)	<5ppm		
Dibromobiphenyl (DiBB)	<5ppm		
Tribromobiphenyl (TriBB)	<5ppm		
Tetrabromobiphenyl (TeraBB)	<5ppm		
Pentabromobiphenyl (PentaBB)	<5ppm		
Hexabromobiphenyl (HexaBB)	<5ppm		
Heptabromobiphenyl (HeptaBB)	<5ppm		Principal Control of
Octabromobiphenyl (OctaBB)	<5ppm		
Nonabromobiphenyl (NonaBB)	<5ppm		5
Decabromobiphenyl (DecaBB)	<5ppm		
Sum of Polybrominated Diphenyl ether (PBDEs)	<5ppm	1000ppm	
Monobromodiphenyl ether(MonoBDE)	<5ppm		See III
Dibromodiphenyl ether(DiBDE)	<5ppm		
Tribromodiphenyl ether(TriBDE)	<5ppm		
Tetrabromodiphenyl ether(TetraBDE)	<5ppm		
Pentabromodiphenyl ether(PentaBDE)	<5ppm		
Hexabromodiphenyl ether(HexaBDE)	<5ppm		
Heptabromodiphenyl ether(HeptaBDE)	<5ppm		
Octabromodiphenyl ether(OctaBDE)	<5ppm		
Nonabromodiphenyl ether(NonaBDE)	<5ppm		
Decabromodiphenyl ether(DecaBDE)	<5ppm		



4.26 Bead on mian PCB board			
Testing item	Test Results	Limit	Photo
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	
Mercury (Hg)	<5ppm	1000ppm	
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	
Sum of Polybrominated Biphenyl (PBBs)	<5ppm	1000ppm	
Monobromobiphenyl (MonoBB)	<5ppm		
Dibromobiphenyl (DiBB)	<5ppm		
Tribromobiphenyl (TriBB)	<5ppm		
Tetrabromobiphenyl (TeraBB)	<5ppm		
Pentabromobiphenyl (PentaBB)	<5ppm		
Hexabromobiphenyl (HexaBB)	<5ppm		
Heptabromobiphenyl (HeptaBB)	<5ppm		Approx 1 Page 10
Octabromobiphenyl (OctaBB)	<5ppm		
Nonabromobiphenyl (NonaBB)	<5ppm)
Decabromobiphenyl (DecaBB)	<5ppm		
Sum of Polybrominated Diphenyl ether (PBDEs)	<5ppm	1000ppm	10 m = 10 m
Monobromodiphenyl ether(MonoBDE)	<5ppm		Seattle Committee of the Committee of th
Dibromodiphenyl ether(DiBDE)	<5ppm		
Tribromodiphenyl ether(TriBDE)	<5ppm		
Tetrabromodiphenyl ether(TetraBDE)	<5ppm		
Pentabromodiphenyl ether(PentaBDE)	<5ppm		
Hexabromodiphenyl ether(HexaBDE)	<5ppm		
Heptabromodiphenyl ether(HeptaBDE)	<5ppm		
Octabromodiphenyl ether(OctaBDE)	<5ppm		
Nonabromodiphenyl ether(NonaBDE)	<5ppm		
Decabromodiphenyl ether(DecaBDE)	<5ppm		

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4.27 Sloder on mian PCB board			
Testing item	Test Results	Limit	Photo
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	Apan Di ali ali
Mercury (Hg)	<5ppm	1000ppm	
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	



4.28 Chip components on mian PCB board			
Testing item	Test Results	Limit	Photo
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	
Mercury (Hg)	<5ppm	1000ppm	
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	
Sum of Polybrominated Biphenyl (PBBs)	<5ppm	1000ppm	
Monobromobiphenyl (MonoBB)	<5ppm		
Dibromobiphenyl (DiBB)	<5ppm		
Tribromobiphenyl (TriBB)	<5ppm		
Tetrabromobiphenyl (TeraBB)	<5ppm		
Pentabromobiphenyl (PentaBB)	<5ppm		
Hexabromobiphenyl (HexaBB)	<5ppm		
Heptabromobiphenyl (HeptaBB)	<5ppm		Tayon Marie at
Octabromobiphenyl (OctaBB)	<5ppm		
Nonabromobiphenyl (NonaBB)	<5ppm		5
Decabromobiphenyl (DecaBB)	<5ppm		
Sum of Polybrominated Diphenyl ether (PBDEs)	<5ppm	1000ppm	1 I
Monobromodiphenyl ether(MonoBDE)	<5ppm		See III
Dibromodiphenyl ether(DiBDE)	<5ppm		
Tribromodiphenyl ether(TriBDE)	<5ppm		
Tetrabromodiphenyl ether(TetraBDE)	<5ppm		
Pentabromodiphenyl ether(PentaBDE)	<5ppm		
Hexabromodiphenyl ether(HexaBDE)	<5ppm		
Heptabromodiphenyl ether(HeptaBDE)	<5ppm		
Octabromodiphenyl ether(OctaBDE)	<5ppm		
Nonabromodiphenyl ether(NonaBDE)	<5ppm		
Decabromodiphenyl ether(DecaBDE)	<5ppm		



4.29 Insulation of USB		
Testing item	Test Results	Limit
Cadmium (Cd)	<5ppm	100ppm
Lead (Pb)	<5ppm	1000ppm
Mercury (Hg)	<5ppm	1000ppm
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm
Sum of Polybrominated Biphenyl (PBBs)	<5ppm	1000ppm
Monobromobiphenyl (MonoBB)	<5ppm	
Dibromobiphenyl (DiBB)	<5ppm	
Tribromobiphenyl (TriBB)	<5ppm	
Tetrabromobiphenyl (TeraBB)	<5ppm	
Pentabromobiphenyl (PentaBB)	<5ppm	
Hexabromobiphenyl (HexaBB)	<5ppm	
Heptabromobiphenyl (HeptaBB)	<5ppm	
Octabromobiphenyl (OctaBB)	<5ppm	
Nonabromobiphenyl (NonaBB)	<5ppm	
Decabromobiphenyl (DecaBB)	<5ppm	
Sum of Polybrominated Diphenyl ether (PBDEs)	<5ppm	1000ppm
Monobromodiphenyl ether(MonoBDE)	<5ppm	
Dibromodiphenyl ether(DiBDE)	<5ppm	
Tribromodiphenyl ether(TriBDE)	<5ppm	
Tetrabromodiphenyl ether(TetraBDE)	<5ppm	
Pentabromodiphenyl ether(PentaBDE)	<5ppm	
Hexabromodiphenyl ether(HexaBDE)	<5ppm	
Heptabromodiphenyl ether(HeptaBDE)	<5ppm	
Octabromodiphenyl ether(OctaBDE)	<5ppm	
Nonabromodiphenyl ether(NonaBDE)	<5ppm	
Decabromodiphenyl ether(DecaBDE)	<5ppm	



4.30 White Plastic of USB			
Testing item	Test Results	Limit	Photo
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	
Mercury (Hg)	<5ppm	1000ppm	
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	
Sum of Polybrominated Biphenyl (PBBs)	<5ppm	1000ppm	
Monobromobiphenyl (MonoBB)	<5ppm		
Dibromobiphenyl (DiBB)	<5ppm		
Tribromobiphenyl (TriBB)	<5ppm		
Tetrabromobiphenyl (TeraBB)	<5ppm		
Pentabromobiphenyl (PentaBB)	<5ppm		
Hexabromobiphenyl (HexaBB)	<5ppm		
Heptabromobiphenyl (HeptaBB)	<5ppm		
Octabromobiphenyl (OctaBB)	<5ppm		
Nonabromobiphenyl (NonaBB)	<5ppm		
Decabromobiphenyl (DecaBB)	<5ppm		
Sum of Polybrominated Diphenyl ether (PBDEs)	<5ppm	1000ppm	
Monobromodiphenyl ether(MonoBDE)	<5ppm		
Dibromodiphenyl ether(DiBDE)	<5ppm		
Tribromodiphenyl ether(TriBDE)	<5ppm		
Tetrabromodiphenyl ether(TetraBDE)	<5ppm		
Pentabromodiphenyl ether(PentaBDE)	<5ppm		
Hexabromodiphenyl ether(HexaBDE)	<5ppm		
Heptabromodiphenyl ether(HeptaBDE)	<5ppm		
Octabromodiphenyl ether(OctaBDE)	<5ppm		
Nonabromodiphenyl ether(NonaBDE)	<5ppm		
Decabromodiphenyl ether(DecaBDE)	<5ppm		



4.31 Metal of USB			
Testing item	Test Results	Limit	Photo
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	
Mercury (Hg)	<5ppm	1000ppm	
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	



4.32 Metal of tie			
Testing item	Test Results	Limit	Photo
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	
Mercury (Hg)	<5ppm	1000ppm	
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	



4.33 Insulation of tie			
Testing item	Test Results	Limit	
Cadmium (Cd)	<5ppm	100ppm	
Lead (Pb)	<5ppm	1000ppm	1
Mercury (Hg)	<5ppm	1000ppm	1
Hexavalent Chromium Cr ⁶⁺	<5ppm	1000ppm	1
Sum of Polybrominated Biphenyl (PBBs)	<5ppm	1000ppm	ı
Monobromobiphenyl (MonoBB)	<5ppm		
Dibromobiphenyl (DiBB)	<5ppm		
Tribromobiphenyl (TriBB)	<5ppm		
Tetrabromobiphenyl (TeraBB)	<5ppm		
Pentabromobiphenyl (PentaBB)	<5ppm		
Hexabromobiphenyl (HexaBB)	<5ppm		
Heptabromobiphenyl (HeptaBB)	<5ppm		
Octabromobiphenyl (OctaBB)	<5ppm		
Nonabromobiphenyl (NonaBB)	<5ppm		
Decabromobiphenyl (DecaBB)	<5ppm		
Sum of Polybrominated Diphenyl ether (PBDEs)	<5ppm	1000ppm	1
Monobromodiphenyl ether(MonoBDE)	<5ppm		
Dibromodiphenyl ether(DiBDE)	<5ppm		
Tribromodiphenyl ether(TriBDE)	<5ppm		
Tetrabromodiphenyl ether(TetraBDE)	<5ppm		
Pentabromodiphenyl ether(PentaBDE)	<5ppm		
Hexabromodiphenyl ether(HexaBDE)	<5ppm		
Heptabromodiphenyl ether(HeptaBDE)	<5ppm		
Octabromodiphenyl ether(OctaBDE)	<5ppm		
Nonabromodiphenyl ether(NonaBDE)	<5ppm		
Decabromodiphenyl ether(DecaBDE)	<5ppm		

Date:2016-02-17



5 Photo of the product



Outside view 1



Outside view 2

The report refers only to the sample tested and does not apply to the bulk.

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Outside view 3

End of the report