



**BUREAU  
VERITAS**

# TEST REPORT

LAB NO. : (6615)124-0563  
DATE : July 6, 2015  
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APPLICANT :  
DATE OF SUBMISSION : May 4, 2015  
DATE OF ON HOLD : May 8, 2015  
DATE OF OFF HOLD : July 6, 2015  
TEST PERIOD : May 4, 2015 to July 6, 2015  
NO. OF WORKING DAY(S) : 4  
BV E&E Ref. No. : WZH-15AP29-01CTSP-A0  
SAMPLE DESCRIPTION : One (1) received sample stated to be 卷发器、直发器  
Type Reference: HT-2014  
Rated voltage (range): AC110-240V 50-60Hz  
Rated power: 卷发器 35W,直发器 52W  
TESTED ITEM : 卷发器、直发器

## SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION
Compliance Test - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments	PASS

### REMARK

If there are questions or concerns on this report, please contact the following persons:

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**BUREAU VERITAS  
CONSUMER PRODUCTS SERVICES DIVISION (SHANGHAI)**

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RW/2015

**Photo of the Submitted Sample**



**TEST RESULT**

**Compliance Test - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments**

Test Method : See Appendix.

See Analytes and their corresponding Maximum Allowable Limit in Appendix

Parameter			Result					
Unit			Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs & PBDEs	Conclusion
Test Item	Description	Location	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
1	Silvery metal screw	Housing	ND	ND	ND	ND	NA	PASS
2	Black plastic		ND	ND	ND	ND	ND*	PASS
3	Black plastic		ND	ND	ND	ND	ND*	PASS
4	Black plastic		ND	ND	ND	ND	ND*	PASS
5	Silvery metal with purple coating		ND	ND	ND	ND	ND	PASS
6	Silvery metal without coating		ND	ND	ND	ND	NA	PASS
7	Black plastic		ND	ND	ND	ND	ND*	PASS
8	Beige plastic case		ND	ND	ND	ND	ND	PASS
9	White plastic button		ND	ND	ND	ND	ND	PASS
10	Black plastic		ND	ND	ND	ND	ND	PASS
11	Beige plastic with brown coating		ND	ND	ND	ND	ND	PASS
12	Silvery metal spring with grey plating	Inside	ND	ND	ND	ND	NA	PASS
13	Silvery metal		ND	ND	ND	ND	NA	PASS
14	Brown plastic tape		ND	ND	ND	ND	ND	PASS
15	Black plastic cable jacket		ND	ND	ND	ND	ND	PASS
16	Transparent plastic sleeve		ND	ND	ND	ND	ND	PASS
17	Silvery metal		ND	ND	ND	ND	NA	PASS
18	Grey ceramic with silvery coating		EX <sup>#</sup>	ND	ND	ND	ND	EX <sup>#</sup>
19	Coppery metal wire with silvery plating	PCB	ND	ND	ND	ND	NA	PASS
20	Blue plastic wire jacket		ND	ND	ND	ND	ND	PASS
21	Silvery metal spring with grey plating		ND	ND	ND	ND	NA	PASS
22	Silvery metal solder (second submission)		ND	ND	ND	ND	NA	PASS
23	White plastic button		ND	ND	ND	ND	ND	PASS
24	White plastic case		ND	ND	ND	ND	ND	PASS
25	Silvery metal spring with black plating		ND	ND	ND	ND	NA	PASS
26	Silvery metal		ND	ND	ND	ND	NA	PASS
27	Black chip resistor		ND	ND	ND	ND	ND	PASS
28	Transparent LED		ND	ND	ND	ND	ND*	PASS
29	Green PCB		ND	ND	ND	ND	ND	PASS
30	Black plastic		ND	ND	ND	ND	ND*	PASS



**APPENDIX**

**List of Analytes and their Corresponding Test Methods, Detection Limit and Maximum Allowable Limit [ Compliance Test for European Parliament and Council Directive 2011/65/EU ] :**

No.	Name of Analyte(s)	Detection Limit (mg/kg)				Maximum Allowable Limit (mg/kg)
		X-ray fluorescence (XRF) <sup>[a]</sup>			Wet Chemistry	
		Plastic	Metallic / glass / ceramic	Others		
1	Lead (Pb)	100	200	200	10 <sup>[b]</sup>	1 000
2	Cadmium (Cd)	50	50	50	10 <sup>[b]</sup>	100
3	Mercury (Hg)	100	200	200	10 <sup>[c]</sup>	1 000
4	Chromium (Cr)	100	200	200	NA	NA
5	Chromium VI (Cr VI)	NA	NA	NA	<sup>3</sup> [g, h] / 10 <sup>[d]</sup> / See [e, j]	1 000 / Negative <sup>[i]</sup>
6	Bromine (Br)	200	NA	200	NA	NA
7	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	NA	NA	NA	Each 50 <sup>[f]</sup>	Sum 1 000
8	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	NA	NA	NA	Each 50 <sup>[f]</sup>	Sum 1 000

NA = Not applicable

IEC = International Electrotechnical Commission

[a] Test method with reference to International Standard IEC 62321-3-1: 2013.

[b] Test method with reference to International Standard IEC 62321-5: 2013.

[c] Test method with reference to International Standard IEC 62321-4: 2013.

[d] Polymers and Electronics - Test method with reference to European Standard EN 62321: 2009, Annex C.

[e] Metal - Test method with reference to European Standard EN 62321: 2009, Annex B<sup>[i]</sup>.

[f] Test method with reference to European Standard EN 62321: 2009, Annex A.

[g] Leather - Test method International Standard ISO 17075: 2007.

[h] Other Than Metal, Leather, Polymers and Electronics - Test method with reference to International Standard ISO 17075: 2007.

[i] The principle of this method was evaluated and supported by two studies organized by IEC TC 111 WG3. These studies were focused on detecting the presence of Cr VI in the corrosion protection coatings on metallic samples.

[j] Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Parliament and Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Parliament and Council Directive 2011/65/EU, Article 4(1).

**Testing Approach [ Compliance Test for European Parliament and Council Directive 2011/65/EU ] :**

The testing approach was with reference to the following document(s).

- 1 International Standards IEC 62321-1: 2013 and IEC 62321-2: 2013
- 2 "RoHS Enforcement Guidance Document Version 1" by EU RoHS Enforcement Authorities Informal Network. (May 2006)
- 3 "RoHS Regulations - Government Guidance Notes" by United Kingdom Department for Business Innovation & Skills. (February 2011)
- 4 "Final Report to RoHS substances (Hg, Pb, Cr(VI), Cd, PBB and PBDE) in electrical and electronic equipment in Belgium" by Belgium Federal Public Service Health, Food Chain Safety and Environment. (November 2005)



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**Annex**

**The client declared that the materials used of below Styles are same as tested style HT-2014.**

Description
HT-200B5/HT-200B6/HT-200B7/HT-200B8/HT-2015

**Remark:**

Since the client was not able to provide the sample of additional Style, above additional Style(s) hasn't been tested, but only based on the guarantee letter provided by the client. Bureau Veritas-CPS takes no responsibility for any mistakes and the problems of product consistency caused by inaccurate and/or invalid information submitted by the client. The client will take the responsibility of all discrepancy and risk.