TEST REPORT

LAB NO.	**:**	**(9318)032-0656**
DATE	**:**	**Feb 13, 2018**
PAGE	**:**	**1 OF 18**

APPLICANT	**:**	**CHINABASE INDUSTRIAL CO., LTD.** NO.9 CHENGUANG ROAD, YONGYANG TOWN, LISHUI, NANJING, JIANGSU, CHINA
CONTACT PERSON	**:**	WEN QIU
DATE OF SUBMISSION	**:**	Feb 01, 2018
TEST PERIOD	**:**	Feb 01, 2018 to Feb 13, 2018
NO. OF WORKING DAYS	**:**	9
SAMPLE DESCRIPTION	**:**	plastic and metal materials
Color:		/
Style no. / Model no.:		/
P.O. No.:		/
Country of Origin:		/
Country of Destination:		/
MANUFACTURER	**:**	/

SUMMARY OF TEST RESULTS

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

RW

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NINA REN
SENIOR MANAGER

广州必维技术检测有限公司 报告专用章

REMARK

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

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Photo of the Submitted Sample


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Photograph of test item(s)

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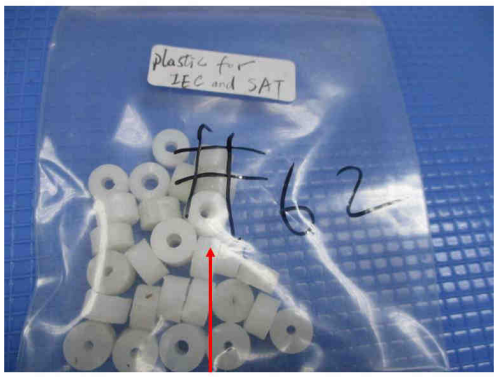

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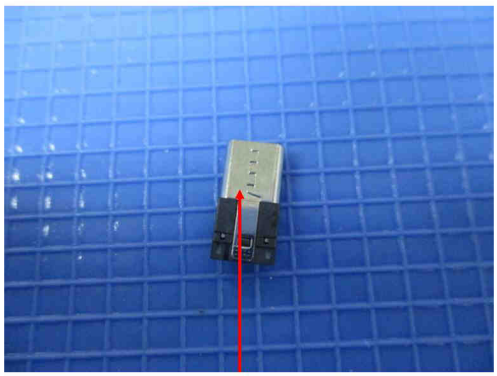
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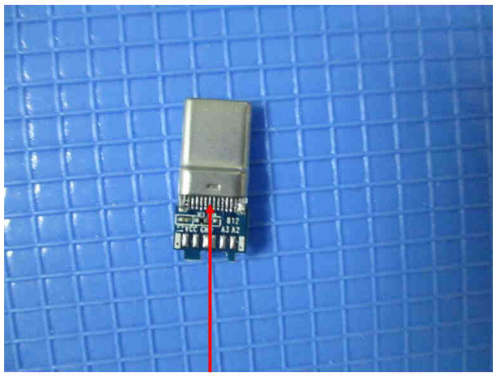
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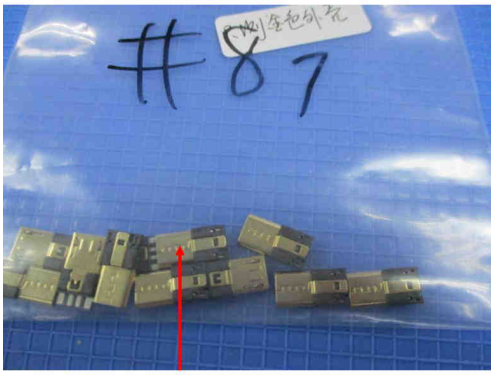

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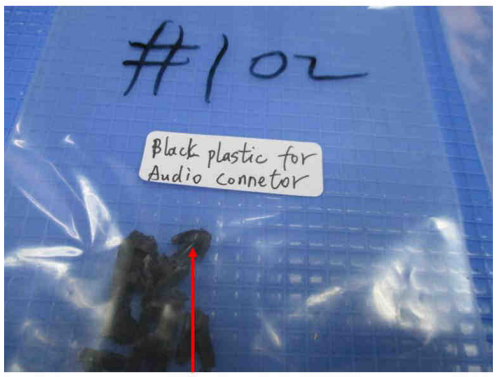

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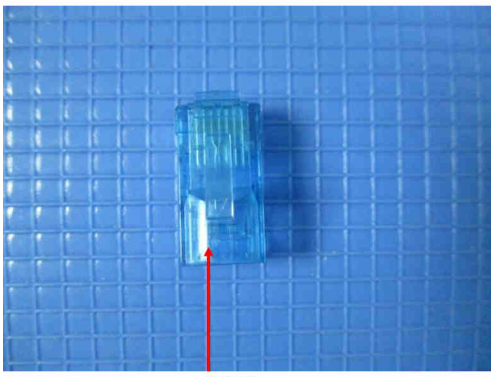
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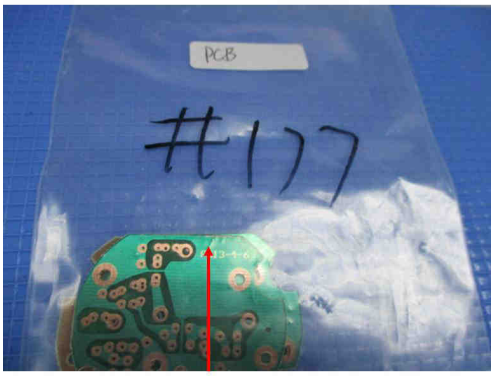

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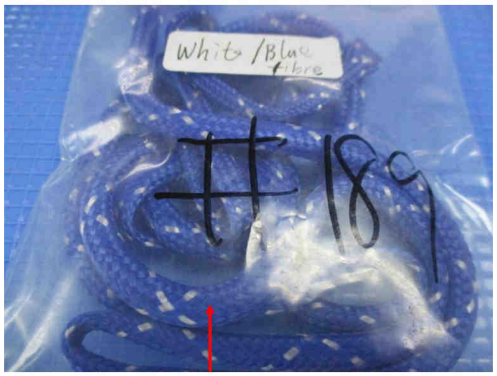

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TEST RESULT

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)

Test Method : See Appendix.

Test Item(s)	Item / Component Description(s) + Location(s)	Style(s)
1	Coppery metal (coppery)	-
2	Coppery metal (wire)	-
3	Coppery metal (ccs)	-
5	Transparent plastic (optical fiber)	-
6	Silvery metal (al wire)	-
7	Silvery solder (soldering wire)	-
8	Red plastic (red pvc)	-
9	Black plastic (black pvc)	-
10	White plastic (white pvc)	-
11	Green plastic (green pvc)	-
12	Blue plastic (blue pvc)	-
13	Yellow plastic (yellow pvc)	-
14	Grey plastic (grey pvc)	-
15	Translucent plastic (clear pvc)	-
16	Transparent plastic (clear plastic)	-
17	Black plastic (black nylon)	-
18	Red plastic (red for plastic)	-
19	Green plastic (green for plastic)	-
20	White plastic (white for plastic)	-
21	Purple plastic (purple for plastic)	-
22	Blue plastic (blue for plastic)	-
23	Yellow plastic (yellow for plastic)	-
24	Brown plastic (brown for plastic)	-
25	Orange plastic (orange for plastic)	-
26	Pink plastic (pink for plastic)	-
27	Black plastic (black for plastic)	-
28	Beige plastic (beige pvc)	-
29	White plastic (white ABS)	-
30	Black plastic (black abs)	-
31	Green/ silvery metal (green al foil)	-
32	Pink/ silvery metal (pink al foil)	-
33	Silvery metal (silvery al foil)	-
34	Coppery/ silvery metal (coppery al foil)	-
35	Blue/ silvery metal (blue al foil)	-
36	Silvery metal (metal for audio connector)	-
37	Black plastic (black plastic for audio connector)	-
38	White plastic (white plastic for audio connector)	-
60	Golden metal (gold iec)	-
61	Silvery plated golden metal (nickel sat)	-
62	White plastic (plastic for iec and sat)	-
67	Black plastic (black insulator)	-
68	Silvery plated golden metal (pin for hdmi)	-
69	Golden metal (gold shielding metal)	-

70	Silvery metal (nickel shielding metal)	-
73	Black plastic (black insulator)	-
74	Silvery plated golden metal (pin for vga、dvi、dp)	-
75	Golden metal (gold shielding metal)	-
76	Silvery metal (nickel shielding metal)	-
80	Blue plastic (blue insulator)	-
81	White plastic (white insulator)	-
82	Golden metal (gold shielding metal)	-
83	Silvery metal (nickel shielding metal)	-
84	Silvery plated golden metal (metal pin)	-
85	Silvery usb micro	-
86	Silvery usb typec	-
87	Golden metal (gold usb micro)	-
88	Golden metal (gold usb typec)	-
101	Black plastic (black plastic for audio connector)	-
102	Black plastic (black plastic for audio connector)	-
103	Silvery metal (metal for audio connector)	-
104	Silvery metal (metal pin for audio connector)	-
105	Silvery metal (screw)	-
114	Clear modular plug	-
117	Blue plastic (blue modular plug)	-
172	Silvery metal (ZINC)	-
177	Green pcb (pcb)	-
189	White/ blue textile (white/ blue fiber)	-
190	Transparent plastic (PVC for blister)	-

See Analytes and their corresponding Maximum Allowable Limit in Appendix

-	**Result**						
Parameter	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs	PBDEs	**Conclusion**
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item(s)	-	-	-	-	-	-	-
1	ND	ND	ND	ND	NA	NA	PASS
2	ND	ND	ND	ND	NA	NA	PASS
3	ND	ND	ND	ND	NA	NA	PASS
5	ND	ND	ND	ND	ND	ND	PASS
6	ND	ND	ND	ND	NA	NA	PASS
7	ND	ND	ND	ND	NA	NA	PASS
8	ND	ND	ND	ND	ND	ND	PASS
9	ND	ND	ND	ND	ND	ND	PASS
10	ND	ND	ND	ND	ND	ND	PASS
11	ND	ND	ND	ND	ND	ND	PASS
12	ND	ND	ND	ND	ND	ND	PASS
13	ND	ND	ND	ND	ND	ND	PASS
14	ND	ND	ND	ND	ND	ND	PASS
15	ND	ND	ND	ND	ND	ND	PASS
16	ND	ND	ND	ND	ND	ND	PASS
17	ND	ND	ND	ND	ND	ND	PASS
18	ND	ND	ND	ND	ND	ND	PASS
19	ND	ND	ND	ND	ND	ND	PASS
20	ND	ND	ND	ND	ND	ND	PASS

-	**Result**						
Parameter	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs	PBDEs	**Conclusion**
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item(s)	-	-	-	-	-	-	-
21	ND	ND	ND	ND	ND	ND	PASS
22	ND	ND	ND	ND	ND	ND	PASS
23	ND	ND	ND	ND	ND	ND	PASS
24	ND	ND	ND	ND	ND	ND	PASS
25	ND	ND	ND	ND	ND	ND	PASS
26	ND	ND	ND	ND	ND	ND	PASS
27	ND	ND	ND	ND	ND	ND	PASS
28	ND	ND	ND	ND	ND	ND	PASS
29	ND	ND	ND	ND	ND	ND	PASS
30	ND	ND	ND	ND	ND	ND	PASS
31	ND	ND	ND	Negative*	NA	NA	PASS
32	ND	ND	ND	Negative*	NA	NA	PASS
33	ND	ND	ND	ND	NA	NA	PASS
34	ND	ND	ND	ND	NA	NA	PASS
35	ND	ND	ND	ND	NA	NA	PASS
36	ND	ND	ND	Negative*	NA	NA	PASS
37	ND	ND	ND	ND	ND	ND	PASS
38	ND	ND	ND	ND	ND	ND	PASS
60	ND	ND	ND	ND	NA	NA	PASS
61	24500*[#]	ND	ND	ND	NA	NA	Exempted[#]
62	ND	ND	ND	ND	ND	ND	PASS
67	ND	ND	ND	ND	ND	ND	PASS
68	ND	ND	ND	ND	NA	NA	PASS
69	ND	ND	ND	ND	NA	NA	PASS
70	ND	ND	ND	ND	NA	NA	PASS
73	ND	ND	ND	ND	ND*	ND*	PASS
74	ND	ND	ND	ND	NA	NA	PASS
75	ND	ND	ND	ND	NA	NA	PASS
76	ND	ND	ND	ND	NA	NA	PASS
80	ND	ND	ND	ND	ND*	ND*	PASS
81	ND	ND	ND	ND	ND	ND	PASS
82	ND	ND	ND	ND	NA	NA	PASS
83	ND	ND	ND	ND	NA	NA	PASS
84	ND	ND	ND	ND	NA	NA	PASS
85	ND	ND	ND	ND*	ND	ND	PASS
86	ND	ND	ND	ND*	ND*	ND*	PASS
87	ND	ND	ND	Negative*	NA	NA	PASS
88	ND	ND	ND	Negative*	NA	NA	PASS
101	ND	ND	ND	ND	ND	ND	PASS
102	ND	ND	ND	ND	ND	ND	PASS
103	ND	ND	ND	ND	NA	NA	PASS
104	ND	ND	ND	Negative*	NA	NA	PASS
105	ND	ND	ND	Negative*	NA	NA	PASS
114	ND	ND	ND	ND	ND	ND	PASS
117	ND	ND	ND	ND	ND	ND	PASS
172	ND	ND	ND	ND	NA	NA	PASS

-	**Result**						
Parameter	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs	PBDEs	**Conclusion**
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item(s)	-	-	-	-	-	-	-
177	ND	ND	ND	ND	ND*	ND*	PASS
189	ND	ND	ND	ND	ND	ND	PASS
190	ND	ND	ND	ND	ND	ND	PASS

Note / Key :

ND = Not detected
NR = Not requested
% = percent
Detection Limit : See Appendix.
">" = Greater than
mg/kg = milligram(s) per kilogram = ppm = part(s) per million
10 000 mg/kg = 1 %

Remark :

- The testing approach is listed in table of Appendix.
- * denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, non-uniformity composition, surface flatness.
- According to European Parliament and Council Directive 2011/65/EU, Article 5 "Adaptation of the Annexes to scientific and technical progress", exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive.
- #According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 6(c) is reiterated here "Copper alloy containing up to 4 % lead by weight.". Test Item(s) < 61 > was (were) claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.

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 Analytes	Detection Limit (mg/kg)				Maximum Allowable Limit (mg/kg)
		X-ray fluorescence (XRF)[a]			Wet Chemistry	
		Plastic	Metallic / glass / ceramic	Others		
1	Lead (Pb)	100	200	200	10[b]	1 000
2	Cadmium (Cd)	50	50	50	10[b]	100
3	Mercury (Hg)	100	200	200	10[c]	1 000
4	Chromium (Cr)	100	200	200	NA	NA
5	Chromium VI (Cr VI)	NA	NA	NA	3[g, h] / 10[d] / See [e, j]	1 000 / Negative[j]
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[f]	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[f]	Sum 1 000

NA = Not applicable

[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: 2017.

[d] Polymers and Electronics - Test method with reference to European Standard EN 62321-7-2: 2017.

[e] Metal - Test method with reference to International Standard IEC 62321-7-1: 2015 [i].

[f] Test method with reference to International Standard IEC 62321-6: 2015.

[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)

END