

TEST REPORT

BUREAU VERITAS		LAB NO. DATE PAGE	: : :	(9318)158-0893 Jun 08, 2018 1 OF 24
APPLICANT	:	KINGFISHER ASIA LIMITEI 2/F,KOHO,73-75 HUNG TO RO TONG,KOWLOONHONG KO	AD K	WUN
CONTACT PERSON	:	BOLIN.C		
DATE OF SUBMISSION		Jun 07, 2018		
TEST PERIOD		Jun 07, 2018 to Jun 08, 2018		
NO. OF WORKING DAYS		2		
SAMPLE DESCRIPTION	:	FIXED light		
Color:		black		
Style no. / Model no.:		see the list on page 2		
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	PASS	
Hazardous Substances in Electrical and Electronic	rass	
Equipment (RoHS)		

RW

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NO.	副证上客人 KINGFISHER 的 型号
1	HS170326-1
2	HS170326-2
3	HS170326-3
4	HS14420-1
5	HS14420-2
6	HS14420-3
7	HS14420-4
8	HS178201SN
9	HS178202SN
10	HS178203SN
11	HS12814-1
12	HS12814-2
13	HS12814-3P
14	HS12814-4
15	HCE17717-1
16	HCE17716-1
17	HCE1679-1
18	HW1785-01





REMARK

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

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	FAX:	(86)755 83439100
b)	BUSINESS SZ TEL:	(86)755 21534695
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	FAX:	(86) 20 87148528

EMAIL: WEBSITE eechemical.sc@cn.bureauveritas.com cps.bureauveritas.cn



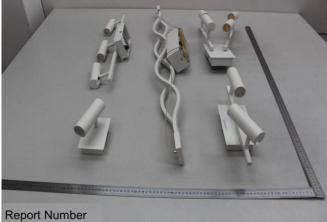
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Photo of the Submitted Sample





Report Number (9318)158-0893



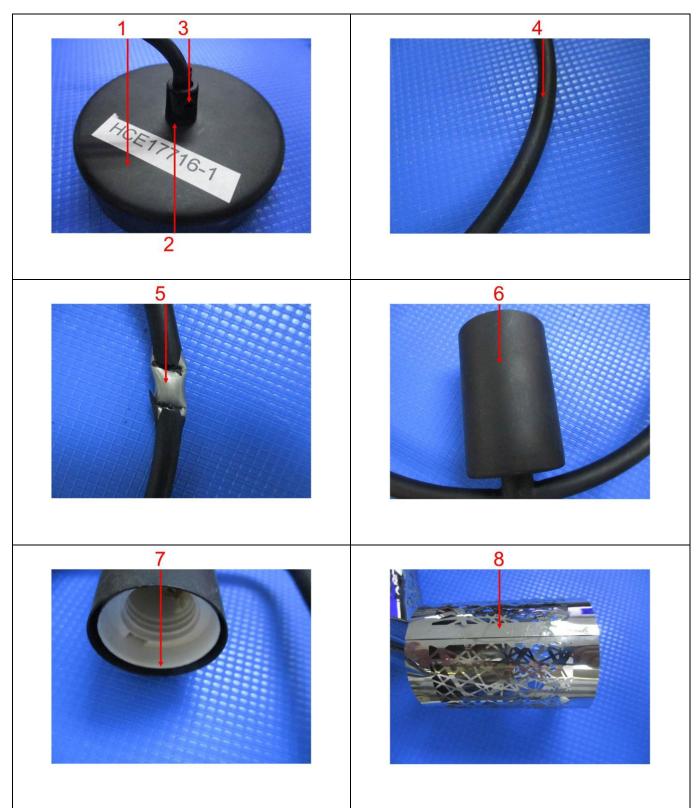
91 SI FI EI ZI II 01 6®8 2 9 S F E Z Report Number (9318)158-0893

(9318)158-0893



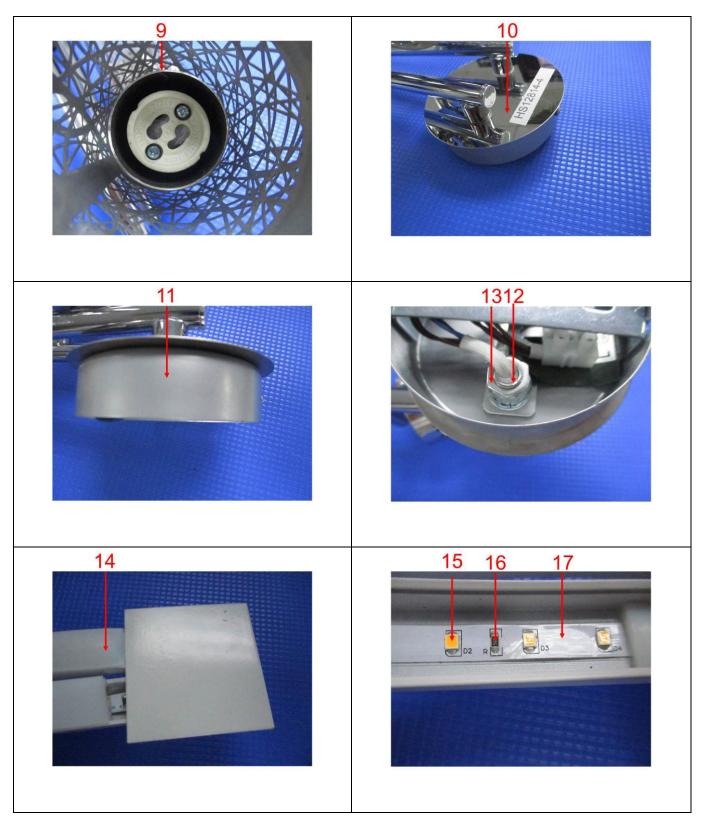
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Photograph of test item(s)



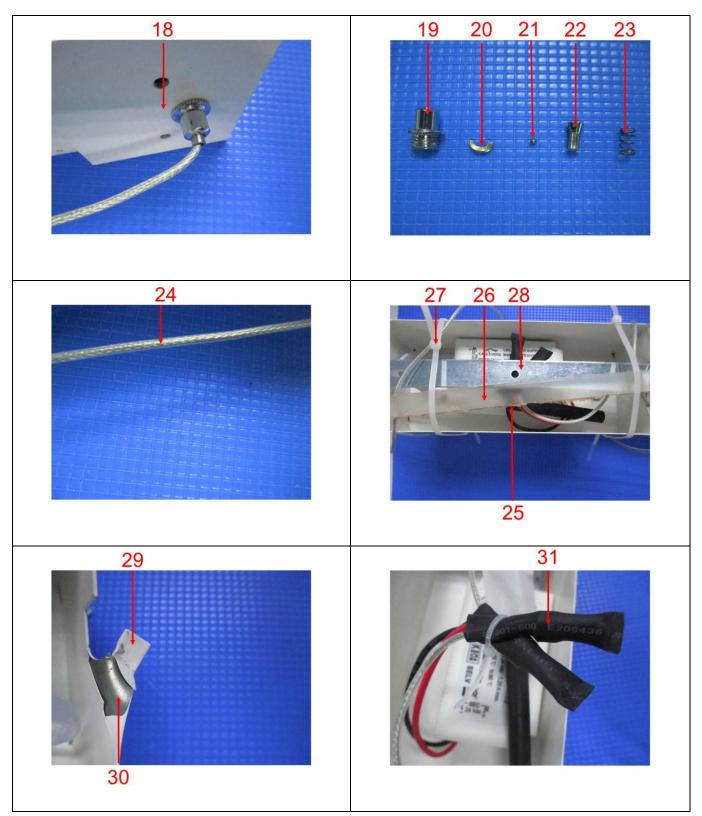


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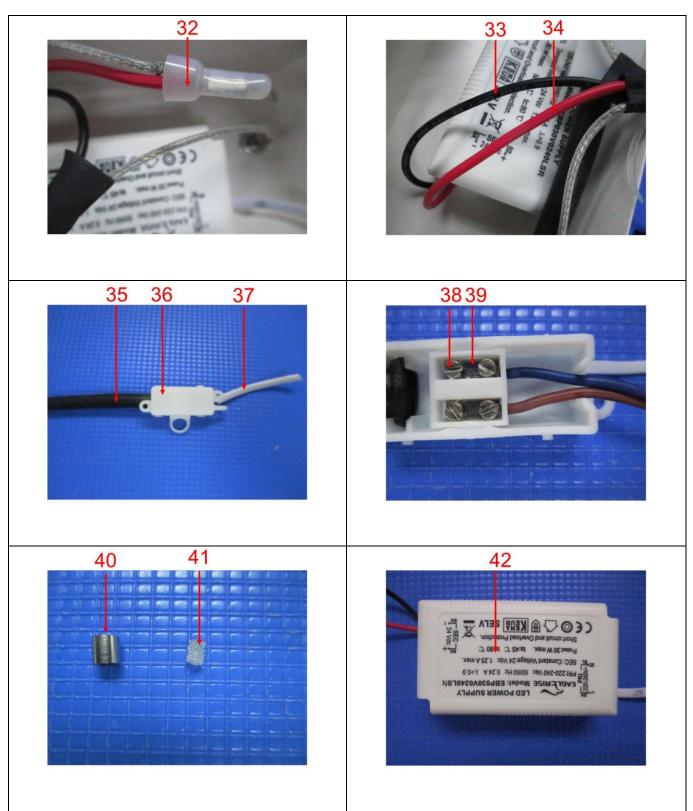


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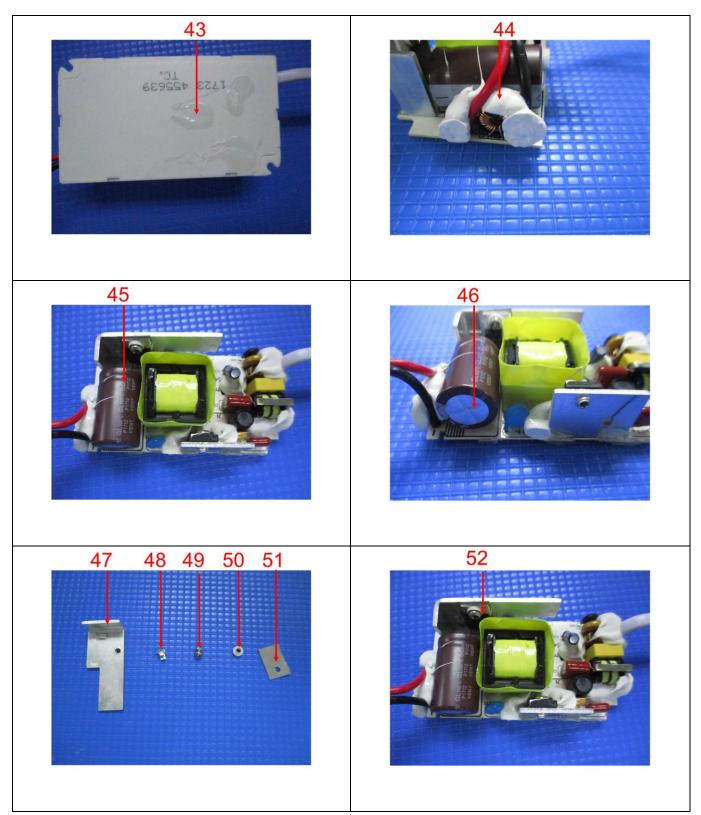


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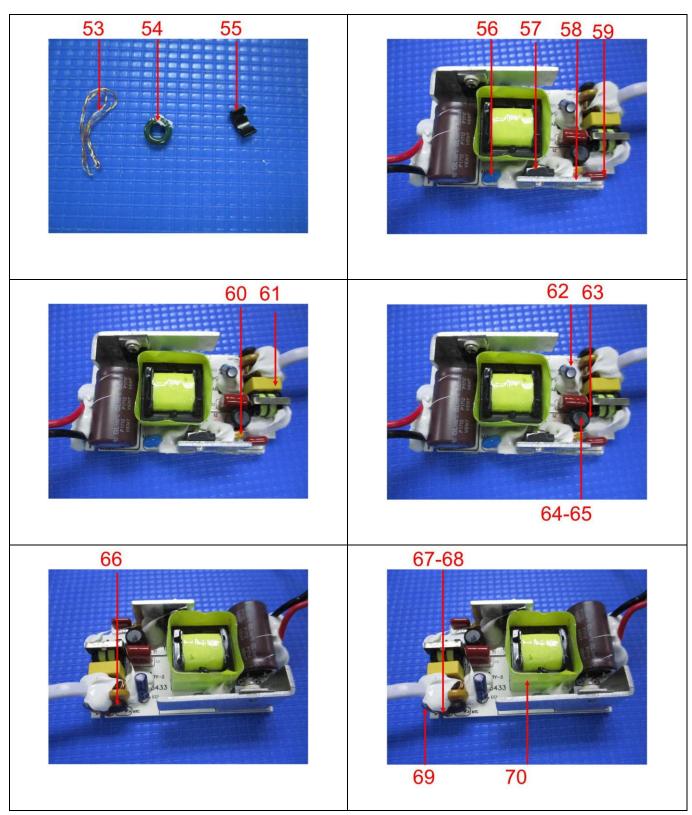


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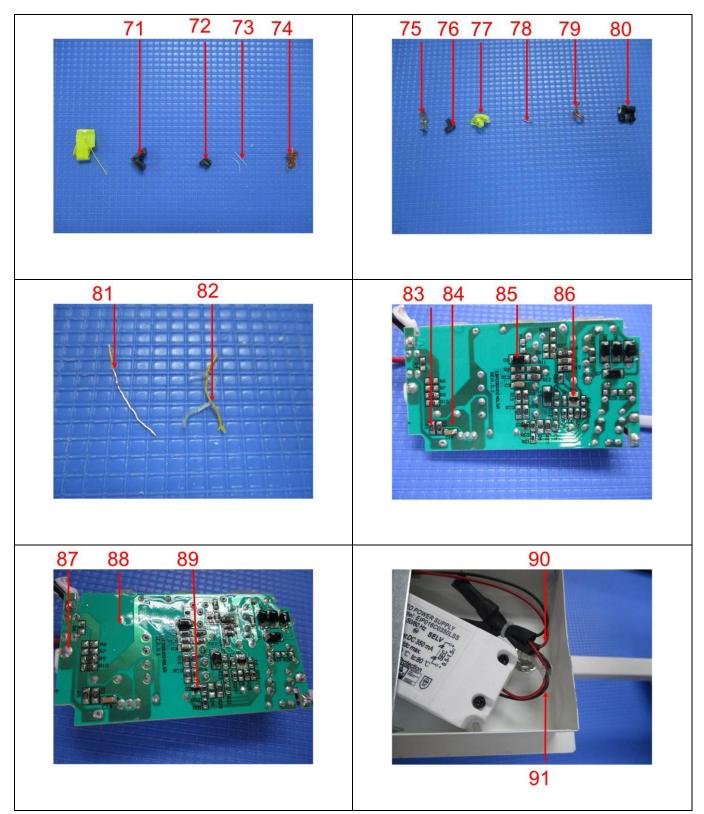


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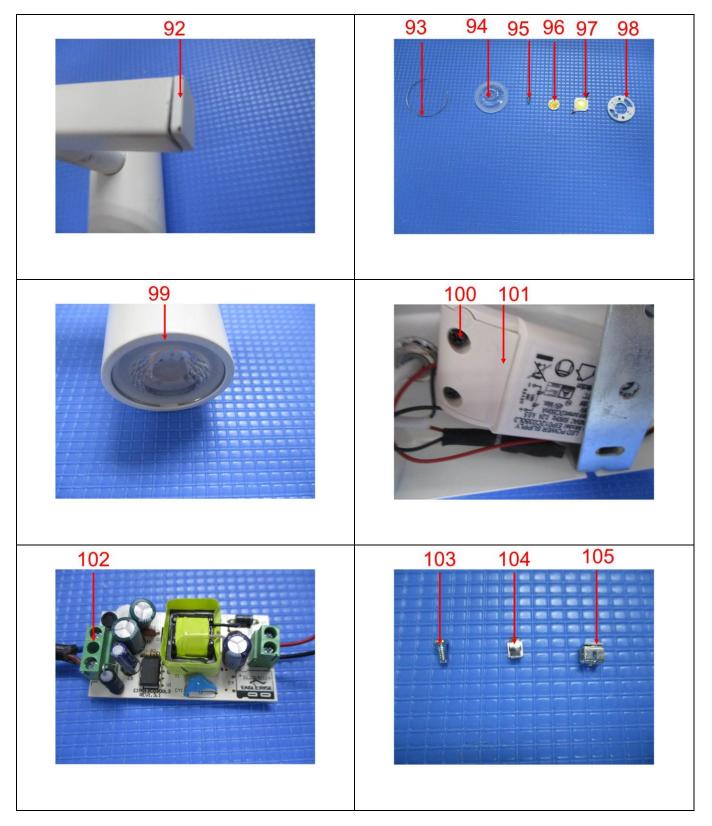


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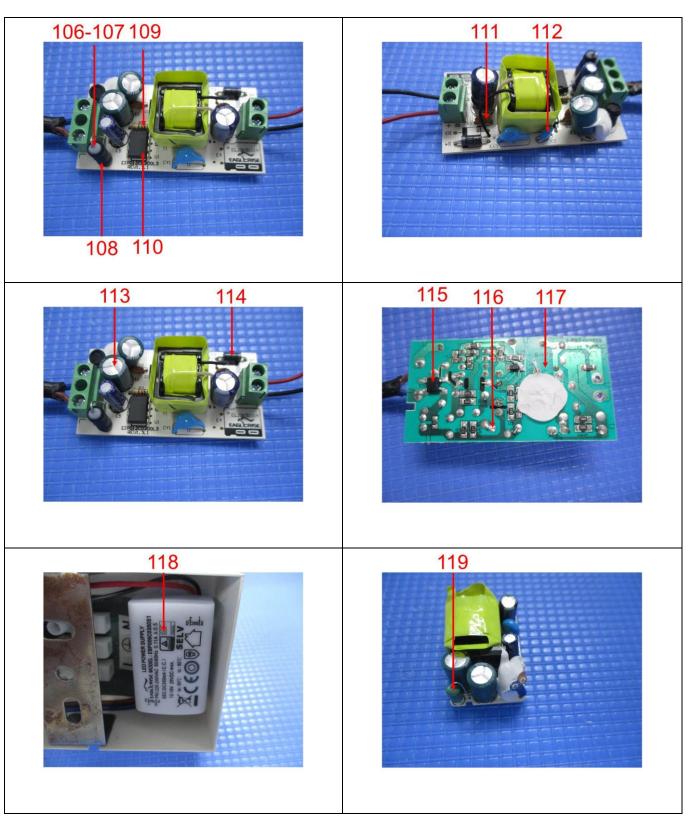


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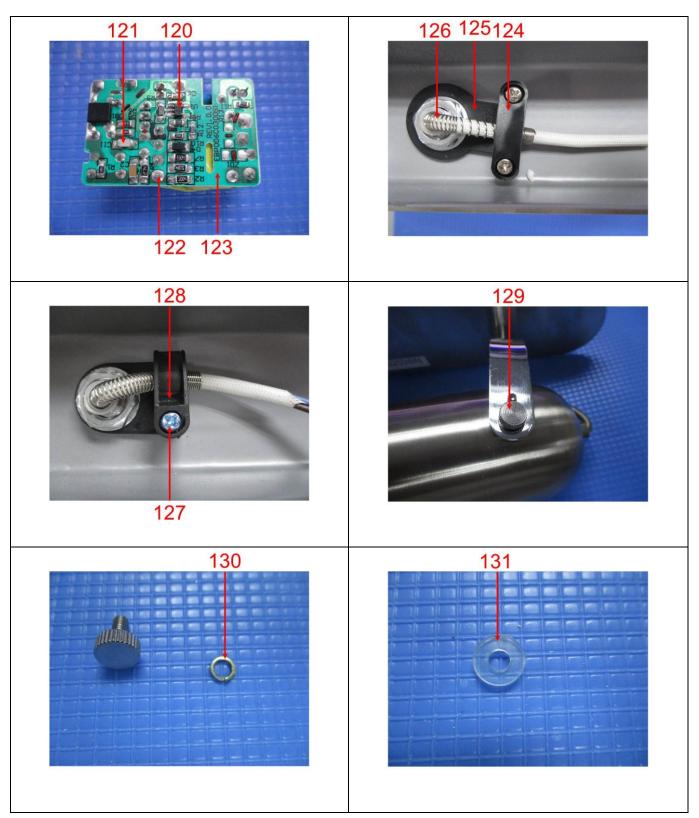


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TEST RESULT

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)

Fest Item(s)	Item / Component Description(s) + Location(s)	Style(s)
1	Black printed silvery metal (base, lampholder)	-
2	Black plastic (screw, connector base)	-
3	Black plastic (shaft, connector base, lampholder)	-
4	Black coating (lampholder support)	-
5	Silvery metal (lampholder support)	-
6	Black printed silvery metal (case, lampholder)	-
7	White plastic (lampholder)	-
8	Silvery metal (lampshade)	-
9	Silvery metal (inner lampshade)	-
10	Silvery metal (cover, lampholder)	-
11	Silvery metal (base, lampholder)	-
12	Silvery metal (nut, base)	-
13	Silvery metal (big nut, base)	-
14	White plastic (cover, lampshade)	-
15	Yellow body (led, pcb)	-
16	Silvery printed black body (smd resistor, pcb)	-
17	White pcb (pcb)	-
18	White printed silvery metal (base, lampholder support)	-
19	Silvery metal (connector, lampholder support)	-
20	Golden metal (nut, lampholder support)	-
21	Silvery metal (steel ball, lampholder support)	-
22	Silvery plated golden metal (shaft, lampholder support)	-
23	Silvery metal (spring, lampholder support)	-
24	White transparent plastic (wire jacket)	-
25	Brown paper (base)	-
26	White tranparent plastic (support, base)	-
27	White plastic (clip, base)	-
28	Silvery metal (support, base)	-
29	White coating (base)	-
30	Silvery metal (base)	-
31	Black soft plastic (sleeve, wire)	-
32	Whtie transparent plastic (sleeve, wire)	-
33	Black plastic (wire jacket)	-
34	Red plastic (wire jacket)	-
35	Black soft plastic (tube, base)	-
36	White plastic (sleeve, wire, plug)	-
37	Whtie plastic (box.base)	-
38	Silvery metal (screw, base)	-
39	Silvery plated golden metal (connector screw, base)	-
40	Silvery plated golden metal (roller, base)	-
41	White transparent plastic (nut, connector roller)	-
42	Black printed white plastic (case, ballast)	-



44	White glue (pcb)	-
45	Grey printed brown soft plastic (sleeve, capacitor"ec5", pcb)	-
46	Silvery body (capacitor"ec5", pcb)	-
47	Silvery metal (support, pcb)	-
48	Silvery metal (pin, support, pcb)	-
49	Silvery metal (screw, diode"d2", pcb)	-
50	Bone plastic (o ring, support, pcb)	-
51	Grey soft plastic (support, pcb)	-
52	Grey printed black body (diode"d2", pcb)	-
53	Coppery metal (coil, inductor"13", pcb)	-
54	Green ceramic (coil holder, inductor"13", pcb)	-
55	Black plastic (base, inductor"13", pcb)	-
56	Grey printed black body (capacitor"cy1", pcb)	-
57	Black body (transistor"q1", pcb)	-
58	Silvery metal (plate, pcb)	-
59	Brown body (capacitor"c3", pcb)	-
60	Orange body (capacitor, pcb)	-
61	Grey printed yellow body (capacitor"c1", pcb)	
62	Grey printed blue soft plastic (sleeve, capacitor"ec1", pcb)	-
63	Black soft plastic (sleeve, inductor"11", pcb)	-
64	Black core (coil holder, inductor"11", pcb)	-
65	Coppery metal (coil, inductor"11", pcb)	-
66	Black body (capacitor"mic)	-
67	Brown plastic (sleeve, fuse, pcb)	-
68	Silvery/ transparent body (fuse, pcb)	-
69	Silvery metal (pin, fuse, pcb)	-
70	Yellow soft plastic with adhesive (tape, transformer, pcb)	-
71	Black core (transformer, pcb)	-
72	Black plastic (base, transformer, pcb)	-
73	White transparent plastic (sleeve, coil, transformer, pcb)	-
74	Coppery metal (coil, transformer, pcb)	-
75	Silvery metal (cover, relay, pcb)	-
76	Black core (coil holder, relay, pcb)	-
77	Yellow soft plastic with adhesive (tape, relay, pcb)	-
78	Silvery metal (connecto, relay, pcb)	-
79	Coppery metal (coil, relay, pcb)	-
80	Black plastic (base, relay, pcb)	-
81	Coppery metal (coil, inductor, pcb)	-
82	Yellow/ transparent plastic (sleeve, coil, inductor, pcb)	-
83	Silvery printed black body (smd resistor"r5", pcb)	-
84	Brown body (smd capacitor"c14", pcb)	-
85	Black body (smd diode"d1", pcb)	-
86	Black body (smd ic"u1", pcb)	_
87	Black body (smd transistor"q2", pcb)	_
88	Silvery solder (pcb)	-
89	Green pcb (pcb)	-
90	Red plastic (wire jacket)	-
91	Black plastic (wire jacket)	-
92	White printed black plastic (cork, support)	-
93	Silvery metal (spring, lamp)	-
93	White transparent plastic (connector, lamp)	
95	Silvery metal (screw, lamp)	-
75	Shivery metal (serew, famp)	



0.6		
96	Yellow soft plastic (cover, pcb)	-
97	White pcb (pcb)	-
98	White plastic (base, pcb)	-
99	White printed silvery metal (lampholder)	-
100	Black printed silvery metal (screw)	-
101	Bone plastic (case)	-
102	Green plastic (base, connector screw, pcb)	-
103	Iridescent metal (screw, pcb)	-
104	Silvery metal (contact plate, connector screw, pcb)	-
105	Silvery metal (connector, screw, pcb)	-
106	Silvery metal (pin, resistor"r1", pcb)	-
107	Multi-color printed grey body (resistor"r1", pcb)	-
108	Black soft plastic (cover, resistor"r1", pcb)	-
109	Multi-color printed brown body (resistor"r3", pcb)	-
110	Grey printed black body (ic"u1", pcb)	-
111	Grey printed brown body (capacitor"c5", pcb)	-
112	Blue body (capacitor"c3", pcb)	-
113	Grey printed green soft plastic (sleeve, capacitor"e2", pcb)	-
114	Grey printed black body (dide"d4", pcb)	-
115	Black body (smd ec"bd1", pcb)	-
116	Silvery solder (pcb)	-
117	Green pcb (small pcb)	-
118	Black printed snow white plastic (case, ballast)	-
119	Multi-color printed green body (inductor"11", pcb)	-
120	Black body (smd ic"u1", pcb)	-
121	Grey body (smd capacitor"c11", pcb)	-
122	Silvery solder (pcb)	-
123	Green pcb (pcb)	-
124	Black plastic (strain relief)	-
125	Black plastic (base, connector strain relief, base)	-
126	Silvery metal (spring, base)	-
127	Iridescent metal (screw, base)	-
128	Black plastic (strain relief, base)	-
129	Silvery metal (screw, lampcover)	-
130	Iridescent metal (o ring, connector screw)	-
131	White transparent plastic (o ring, connector screw)	-
132	Silvery metal (connector lampcover)	-
133	Silvery metal (case, lampcover)	-
L		



-				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	ND	ND	PASS					
3	ND	ND	ND	ND	ND	ND	PASS					
4	ND	ND	ND	ND	ND	ND	PASS					
5	ND	ND	ND	Negative*	NA	NA	PASS					
6	ND	ND	ND	Negative*	NA	NA	PASS					
7	ND	ND	ND	ND	ND*	ND*	PASS					
8	ND	ND	ND	Negative*	NA	NA	PASS					
9	ND	ND	ND	ND	NA	NA	PASS					
10	ND	ND	ND	Negative*	NA	NA	PASS					
11	ND	ND	ND	ND	NA	NA	PASS					
12	ND	ND	ND	Negative*	NA	NA	PASS					
13	ND	ND	ND	Negative*	NA	NA	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	Negative*	NA	NA	PASS					
19	ND	ND	ND	Negative*	NA	NA	PASS					
20	ND	ND	ND	ND	NA	NA	PASS					
21	ND	ND	ND	ND	NA	NA	PASS					
22	27800*#	14.7*	ND	ND	NA	NA	EXEMPTEI					
23	ND	ND	ND	ND	NA	NA	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	Negative*	NA	NA	PASS					
29	ND	ND	ND	ND	ND	ND	PASS					
30	ND	ND	ND	ND	ND	ND	PASS					
31	ND	ND	ND	ND	ND	ND	PASS					
32	ND	ND	ND	ND	ND	ND	PASS					
33	ND	ND	ND	ND	ND	ND	PASS					
34	ND	ND	ND	ND	ND	ND	PASS					
35	ND	ND	ND	ND	ND	ND	PASS					
36	ND	ND	ND	ND	ND	ND	PASS					
37	ND	ND	ND	ND	ND	ND	PASS					
38	ND	ND	ND	Negative*	NA	NA	PASS					
39	26600*#	32*	ND	ND	NA	NA	EXEMPTEI					
40	30400*#	21*	ND	ND	NA	NA	EXEMPTE					
41	ND	ND	ND	ND	ND	ND	PASS					
42	ND	ND	ND	ND	ND	ND	PASS					
43	ND	ND	ND	ND	ND	ND	PASS					
44	ND	ND	ND	ND	ND	ND	PASS					

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-	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)	-	-	-	-	-	-	-	
45	ND	ND	ND	ND	ND	ND	PASS	
46	ND	ND	ND	ND	ND	ND	PASS	
47	ND	ND	ND	ND	NA	NA	PASS	
48	ND	ND	ND	ND	NA	NA	PASS	
49	ND	ND	ND	ND	NA	NA	PASS	
50	ND	ND	ND	ND	ND*	ND*	PASS	
51	ND	ND	ND	ND	ND	ND	PASS	
52	>1500#	ND	ND	ND	NA	NA	EXEMPTED [#]	
53	ND	ND	ND	ND	NA	NA	PASS	
54	ND	ND	ND	ND	ND	ND	PASS	
55	ND	ND	ND	ND	ND	ND	PASS	
56	ND	ND	ND	ND	ND	ND	PASS	
57	>1500#	ND	ND	ND	NA	NA	EXEMPTED [#]	
58	ND	ND	ND	ND	NA	NA	PASS	
59	ND	ND	ND	ND	ND	ND	PASS	
60	ND	ND	ND	ND	ND	ND	PASS	
61	ND	ND	ND	ND	ND*	ND*	PASS	
62	ND	ND	ND	ND	ND	ND	PASS	
63	ND	ND	ND	ND	ND	ND	PASS	
64	ND	ND	ND	ND*	NA	NA	PASS	
65	ND	ND	ND	ND	NA	NA	PASS	
66	ND	ND	ND	ND	ND	ND	PASS	
67	ND	ND	ND	ND	ND	ND	PASS	
68	ND	ND	ND	ND	ND	ND	PASS	
69	ND	ND	ND	ND	NA	NA	PASS	
70	ND	ND	ND	ND	ND	ND	PASS	
71	ND	ND	ND	ND	NA	NA	PASS	
72	ND	ND	ND	ND	ND	ND	PASS	
73	ND	ND	ND	ND	ND	ND	PASS	
74	ND	ND	ND	ND	NA	NA	PASS	
75	ND	ND	ND	Negative*	NA	NA	PASS	
76	ND	ND	ND	ND*	NA	NA	PASS	
77	ND	ND	ND	ND	ND	ND	PASS	
78	ND	ND	ND	ND	NA	NA	PASS	
79	ND	ND	ND	ND	NA	NA	PASS	
80	ND	ND	ND	ND	ND	ND	PASS	
81	ND	ND	ND	ND	NA	NA	PASS	
82	ND	ND	ND	ND	ND	ND	PASS	
83	ND	ND	ND	ND	ND	ND	PASS	
84	ND	ND	ND	ND	ND	ND	PASS	
85	ND	ND	ND	ND	ND*	ND*	PASS	
86	ND	ND	ND	ND	ND	ND	PASS	
87	ND	ND	ND	ND	ND	ND	PASS	
88	ND	ND	ND	ND	NA	NA	PASS	
89	ND	ND	ND	ND	ND*	ND*	PASS	
90	ND	ND ND	ND	ND	ND	ND	PASS	
90	ND	ND	ND	ND	ND	ND	газэ	

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-				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)	-	-	-	-	-	-	-
91	ND	ND	ND	ND	ND	ND	PASS
92	ND	ND	ND	ND	ND	ND	PASS
93	ND	ND	ND	ND	NA	NA	PASS
94	ND	ND	ND	ND	ND	ND	PASS
95	ND	ND	ND	Negative*	NA	NA	PASS
96	ND	ND	ND	ND	ND	ND	PASS
97	ND	ND	ND	ND	ND	ND	PASS
98	ND	ND	ND	ND	ND	ND	PASS
99	ND	ND	ND	ND	NA	NA	PASS
100	ND	ND	ND	ND	NA	NA	PASS
101	ND	ND	ND	ND	ND	ND	PASS
102	ND	ND	ND	ND	ND*	ND*	PASS
103	ND	ND	ND	Negative*	NA	NA	PASS
104	ND	ND	ND	Negative*	NA	NA	PASS
105	ND	ND	ND	ND	NA	NA	PASS
106	ND	ND	ND	ND	NA	NA	PASS
107	ND	ND	ND	ND*	NA	NA	PASS
108	ND	ND	ND	ND	ND	ND	PASS
109	ND	ND	ND	ND	ND	ND	PASS
110	ND	ND	ND	ND	ND	ND	PASS
111	ND	ND	ND	ND	NA	NA	PASS
112	ND	ND	ND	ND	ND	ND	PASS
113	ND	ND	ND	ND	ND	ND	PASS
114	ND	ND	ND	ND	ND*	ND*	PASS
115	ND	ND	ND	ND	ND*	ND*	PASS
116	ND	ND	ND	ND	NA	NA	PASS
117	ND	ND	ND	ND	ND*	ND*	PASS
118	ND	ND	ND	ND	ND	ND	PASS
119	ND	ND	ND	ND	ND	ND	PASS
120	ND	ND	ND	ND	ND	ND	PASS
121	ND	ND	ND	ND	ND	ND	PASS
122	ND	ND	ND	ND	NA	NA	PASS
123	ND	ND	ND	ND	ND*	ND*	PASS
124	ND	ND	ND	ND	ND	ND	PASS
125	ND	ND	ND	ND	ND	ND	PASS
126	ND	ND	ND	ND	NA	NA	PASS
127	ND	ND	ND	ND	NA	NA	PASS
128	ND	ND	ND	ND	ND	ND	PASS
129	ND	ND	ND	Negative*	NA	NA	PASS
130	ND	ND	ND	Negative*	NA	NA	PASS
131	ND	ND	ND	ND	ND	ND	PASS
132	ND	ND	ND	Negative*	NA	NA	PASS
132	ND	ND	ND	Negative*	NA	NA	PASS



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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) < 77, 94, 95> was (were) claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.
- #According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 7(a) is reiterated here "Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).". Test Item(s) < 107, 112 > was (were) claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.
- The above result(s) of 1-133 is/are transferred from (9318)150-0802 dated on Jun 01, 2018.

<u>END</u>



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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] :								
			Detection Li	on Limit (mg/kg)				
No.	Name of Analytes	X-ray	fluorescence (Maximum Allowable			
110.	Name of Analytes	Plastic	Metallic / glass / ceramic	Others	Wet Chemistry	Limit (mg/kg)		
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		



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- 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.
- Other Than Metal. Leather, Polymers and Electronics Test method with reference to International Standard ISO [h] 17075: 2007.
- The principle of this method was evaluated and supported by two studies organized by IEC TC 111 WG3. These [i] studies were focused on detecting the presence of Cr VI in the corrosion protection coatings on metallic samples. 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
- [j] 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).

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