

TEST REPORT

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Applicant:

CSE ENERGY & TECHNOLOGY CO., LTD.

NO.777, SIZHUAN ROAD, SONGJIANG, SHANGHAI, CHINA

Date of Submission: 2024-3-27

Test Period: 2024-3-27 to 2024-4-15 Sample Mode: Sample Presentation

BV EE Ref. No.:

Sample Description:	Sample(s) received is(are) stated to be: Components of Energy storage integrated cabinet							
Manufacturer:	CSE Energy & Technology Co.,Ltd.	Buyer:	/					
Style No(s):	EcoPower-Cube-L215A	PO No.:	/					
Country of Origin:	Shanghai	Country of Destination:	Oversea Country					

SUMMARY OF TEST RESULTS

TEST REQUESTED		CONCLUSION
Compliance Test - European Parliament and Counc	cil Directive 2011/65/EU on the Restriction of the	
Use of Certain Hazardous Substances in Electrical	PASS	
Amendments (EU) 2015/863	JER PRODUCTS SECTION	
Note: Testing as sample submitted by client, this test re for the representative and authenticity of the subrather than the tested part of the sample was specified by client. The test conclusion was given based on the result are composite testing was performed as per client. REMARK If there are questions or concerns on this report, please contact the follows:	ient. ts of tested part. at's request. ing persons:	e client is responsible
General enquiry and invoicing	Mr. Speed Yu/ Ms. Cabell Cheo 位近位侧专用早(021) 24166888*6832/6850	
Technical enquiry	Speed.yu @cn.bureauveritas.com/Joan.chen@cn.bureauveritas.com/ Mr. Gorden Yu/ Ken He (021) 24166888*6852/6859 Gorden.yu @cn.bureauveritas.com/ Kenny. he@bureauveritas.com	
	BUREAU VERITAS CONSUMER PRODUCTS SERVICES DIVISION (SHANGHAI)	

Laboratory Test Location: No.368, Guangzhong Road, Zhuanqiao Town, Minhang, Shanghai

No.168, Guanghua Road, Zhuanqiao Town, Minhang, Shanghai

PREPARED BY: ROXY

Lynd Lv Technical Specialist



Bureau Veritas Consumer Products Services Division (Shanghai)

No.168, Guanghua Road, Zhuanqiao Town, Minhang, Shanghai, China. Post Code: 201108

Tel: 86-21-24166888 Fax: 86-21-64890042 Email: bvcps_sh_info@cn.bureauveritas.com Http: www. bureauveritas.com/cps

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Photo of the Submitted Sample





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TEST RESULT

Compliance Test - Heavy Metals, Flame Retardants Content - 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

	-		Result						
	Parameter		Lead	Cadmiu	Mercury	Chromium	PBBs &	Conclusion	
			(Pb)	m (Cd)	(Hg)	VI (Cr VI)	PBDEs	Conclusion	
	Unit		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-	
Test Item	Description	Location	-	-	-	-	-	-	
1	Silvery metal		ND	ND	ND	ND	NA	PASS	
2	Coppery metal with silvery plating		ND	ND	ND	ND	NA	PASS	
3	Coppery metal		ND	ND	ND	ND	NA	PASS	
4	Grey plastic		ND	ND	ND	ND	ND	PASS	
5	Orange plastic		ND	ND	ND	ND	ND	PASS	
6	Orange plastic		ND	ND	ND	ND	ND	PASS	
7	Black plastic		ND	ND	ND	ND	ND	PASS	
8	Black plastic		ND	ND	ND	ND	ND	PASS	
9	Black plastic		ND	ND	ND	ND	ND	PASS	
10	Black plastic		ND	ND	ND	ND	ND	PASS	
11	Silvery metal spring		ND	ND	ND	Negative*	NA	PASS	
12	Silvery metal		ND	ND	ND	Negative*	NA	PASS	
13	Coppery metal with silvery plating		ND	ND	ND	ND	NA	PASS	
14	Coppery metal with silvery plating		ND	ND	ND	ND	NA	PASS	
15	Coppery metal with silvery plating		ND	ND	ND	ND	NA	PASS	
16	Red plastic		ND	ND	ND	ND	ND	PASS	
17	Transparent plastic		ND	ND	ND	ND	ND	PASS	
18	Yellow plastic		ND	ND	ND	ND	ND	PASS	
19	White plastic		ND	ND	ND	ND	ND	PASS	
20	Silvery metal spring		ND	ND	ND	Negative*	NA	PASS	
21	Grey plastic		ND	ND	ND	ND	ND	PASS	
22	Black plastic		ND	ND	ND	ND	ND	PASS	
23	Silvery metal		ND	ND	ND	ND	NA	PASS	
24	Black plastic		ND	ND	ND	ND	ND	PASS	
25	Grey plastic		ND	ND	ND	ND	ND	PASS	
26	Golden metal with silvery plating		ND	ND	ND	ND	NA	PASS	
27	Silvery metal spring		ND	ND	ND	Negative*	NA	PASS	
28	Grey plastic		ND	ND	ND	ND	ND	PASS	
29	Silvery metal screw		ND	ND	ND	ND	NA	PASS	
30	Blue plastic		ND	ND	ND	ND	ND	PASS	



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	-		Result						
	Parameter		Lead	Cadmiu	Mercury	Chromium	PBBs &	Conclusion	
	Parameter		(Pb)	m (Cd)	(Hg)	VI (Cr VI)	PBDEs	Conclusion	
	Unit		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-	
Test Item	Description	Location	1	-	-	-	-	-	
31	Red plastic		ND	ND	ND	ND	ND	PASS	
32	Green plastic		ND	ND	ND	ND	ND	PASS	
33	White plastic		ND	ND	ND	ND	ND	PASS	
34	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
35	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
36	Coppery metal with silvery plating		ND	ND	ND	ND	NA	PASS	
37	Silvery metal		ND	ND	ND	Negative*	NA	PASS	
38	Silvery metal screw with black plating		ND	ND	ND	ND	NA	PASS	
39	Silvery metal		ND	ND	ND	ND	NA	PASS	
40	Silvery metal		ND	ND	ND	Negative*	NA	PASS	
41	Silvery metal		ND	ND	ND	ND	NA	PASS	
42	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
43	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
44	Silvery metal		ND	ND	ND	ND	NA	PASS	
45	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
46	Coppery metal		ND	ND	ND	ND	NA	PASS	
47	Golden metal		ND	ND	ND	ND	NA	PASS	
48	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
49	Silvery metal solder	Housing	ND	ND	ND	ND	NA	PASS	
50	Coppery metal with silvery plating	110 0001119	ND	ND	ND	ND	NA	PASS	
51	Golden metal with silvery plating		ND	ND	ND	ND	NA	PASS	
52	Coppery metal		ND	ND	ND	ND	NA	PASS	
53	Coppery metal		ND	ND	ND	ND	NA	PASS	
54	Coppery metal with silvery plating		ND	ND	ND	ND	NA	PASS	
55	Silvery metal with black plating		ND	ND	ND	ND	NA	PASS	
56	Silvery metal		ND	ND	ND	ND	NA	PASS	
57	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
58	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
59	Golden metal with silvery plating	Wire	ND	ND	ND	ND	NA	PASS	
60	Silvery metal solder	-	ND	ND	ND	ND	NA	PASS	
61	Silvery metal		ND	ND	ND	ND	NA	PASS	
62	Coppery metal with silvery plating	Conta	ND	ND	ND	ND	NA	PASS	
63	Coppery metal contact point with silvery plating	Carte	ND	ND	ND	ND	NA	PASS	
64	Silvery metal		ND	ND	ND	ND	NA	PASS	



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			Result						
	Parameter		Lead	Cadmiu	Mercury	Chromium	PBBs &	Conclusion	
	Unit		(Pb) mg/kg	m (Cd) mg/kg	(Hg) mg/kg	VI (Cr VI) mg/kg	PBDEs mg/kg		
Test			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-	
Item	Description	Location	-	-	-	-	-	-	
65	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
66	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
	Coppery metal contact								
67	point with silvery		ND	ND	ND	ND	NA	PASS	
	plating								
68	Golden metal with		ND	ND	ND	ND	NA	PASS	
	silvery plating								
69	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
70	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
71	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
72	Coppery metal with		ND	ND	ND	ND	NA	PASS	
-	silvery plating								
73	Golden metal with		ND	ND	ND	ND	NA	PASS	
	silvery plating								
74	Silvery metal with red		ND	ND	ND	ND	NA	PASS	
	plating Golden metal with								
75			ND	ND	ND	ND	NA	PASS	
76	silvery plating Silvery metal solder		ND	ND	ND	ND	NA	PASS	
77	Coppery metal		ND	ND ND	ND ND	ND ND	NA NA	PASS	
78	Silvery metal solder		ND	ND ND	ND ND	ND ND	NA NA	PASS	
79	Silvery metal solder		ND	ND ND	ND ND	ND ND	NA NA	PASS	
80	Silvery metal		ND	ND	ND	ND	NA NA	PASS	
81	Coppery metal		ND	ND	ND	ND	NA NA	PASS	
82	Silvery metal		ND	ND	ND	ND	NA NA	PASS	
62	Coppery metal contact		ND	ND	ND	ND	11/1	TASS	
83	point with silvery		ND	ND	ND	ND	NA	PASS	
0.5	plating		1,2	1,12	1,12	112	1111	11155	
84	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
85	Golden metal		ND	ND	ND	ND	NA	PASS	
86	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
87	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
88	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
89	Silvery metal		ND	ND	ND	ND	NA	PASS	
90	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
91	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
	Silvery metal screw								
92	with black plating		ND	ND	ND	ND	NA	PASS	
93	Silvery metal with		ND	ND	ND	ND	NA	PASS	
73	black plating		ND	ND	אט	עאו	INA	CGA1	
94	Silvery metal with		ND	ND	ND	ND	NA	PASS	
24	black plating		ND	אוע	עויו	עא	11/1	1 ASS	
95	Silvery metal spring		ND	ND	ND	ND	NA	PASS	
	with black plating		İ		İ			1	



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	-				R	esult		
	Parameter		Lead (Pb)	Cadmiu m (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs & PBDEs	Conclusion
	Unit		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item	Description	Location	-	-	-	-	-	-
96	Silvery metal with black plating		ND	ND	ND	ND	NA	PASS
97	Silvery metal solder		ND	ND	ND	ND	NA	PASS
98	Coppery metal contact point with silvery plating		ND	ND	ND	ND	NA	PASS
99	Silvery metal solder		ND	ND	ND	ND	NA	PASS
100	Silvery metal solder		ND	ND	ND	ND	NA	PASS
101	Silvery metal solder		ND	ND	ND	ND	NA	PASS
102	Coppery metal		ND	ND	ND	ND	NA	PASS
103	Silvery metal		ND	ND	ND	ND	NA	PASS
104	Silvery metal with colorful plating		ND	ND	ND	Negative*	NA	PASS
105	Silvery metal		ND	ND	ND	Negative*	NA	PASS
106	Silvery metal solder		ND	ND	ND	ND	NA	PASS
107	Silvery metal solder		ND	ND	ND	ND	NA	PASS
108	Coppery metal contact point with silvery plating		ND	ND	ND	ND	NA	PASS
109	Silvery metal solder		ND	ND	ND	ND	NA	PASS
110	Silvery metal solder		ND	ND	ND	ND	NA	PASS
111	Silvery metal solder		ND	ND	ND	ND	NA	PASS
112	Silvery metal		ND	ND	ND	ND	NA	PASS
113	Coppery metal contact point with silvery plating		ND	ND	ND	ND	NA	PASS
114	Silvery metal solder	Carte	ND	ND	ND	ND	NA	PASS
115	Silvery metal solder		ND	ND	ND	ND	NA	PASS
116	Coppery metal contact point with silvery plating		ND	ND	ND	ND	NA	PASS
117	Silvery metal solder		ND	ND	ND	ND	NA	PASS
118	Silvery metal solder		ND	ND	ND	ND	NA	PASS
119	Silvery metal solder		ND	ND	ND	ND	NA	PASS
120	Silvery metal solder		ND	ND	ND	ND	NA	PASS
121	Silvery metal		ND	ND	ND	ND	NA	PASS
122	Silvery metal solder		ND	ND	ND	ND	NA	PASS
123	Silvery metal solder		ND	ND	ND	ND	NA	PASS
124	Silvery metal solder		ND	ND	ND	ND	NA	PASS
125	Silvery metal solder		ND	ND	ND	ND	NA	PASS
126	Silvery metal solder		ND	ND	ND	ND	NA	PASS
127	Golden metal		ND	ND	ND	ND	NA	PASS
128	Silvery metal		ND	ND	ND	ND	NA	PASS
129	Silvery metal solder		ND	ND	ND	ND	NA	PASS
130	Coppery metal		ND	ND	ND	ND	NA	PASS



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	-		Result						
	Parameter		Lead	Cadmiu	Mercury	Chromium	PBBs &	Conclusion	
			(Pb)	m (Cd)	(Hg)	VI (Cr VI)	PBDEs	Conclusion	
	Unit		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-	
Test Item	Description	Location	-	-	-	-	-	-	
131	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
132	Grey plastic		ND	ND	ND	ND	ND*	PASS	
133	Black plastic		ND	ND	ND	ND	ND	PASS	
134	Grey plastic		ND	ND	ND	ND	ND	PASS	
135	Beige plastic		ND	ND	ND	ND	ND	PASS	
136	Red plastic		ND	ND	ND	ND	ND	PASS	
137	Black plastic		ND	ND	ND	ND	ND	PASS	
138	Orange plastic		ND	ND	ND	ND	ND	PASS	
139	Grey plastic		ND	ND	ND	ND	ND	PASS	
140	Green plastic		ND	ND	ND	ND	ND	PASS	
141	Brown plastic		ND	ND	ND	ND	ND	PASS	
142	White fabric		ND	ND	ND	ND	ND	PASS	
143	Black plastic		ND	ND	ND	ND	ND*	PASS	
144	Black plastic		ND	ND	ND	ND	ND	PASS	
145	Grey plastic		ND	ND	ND	ND	ND	PASS	
146	Black plastic		ND	ND	ND	ND	ND	PASS	
147	Red plastic		ND	ND	ND	ND	ND	PASS	
148	Black plastic		ND	ND	ND	ND	ND*	PASS	
149	Silvery metal		ND	ND	ND	ND	NA	PASS	
150	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
151	Black plastic		ND	ND	ND	ND	ND*	PASS	
152	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
153	White glue		ND	ND	ND	ND	ND	PASS	
154	Black plastic		ND	ND	ND	ND	<100*	PASS	
155	White plastic		ND	ND	ND	ND	ND	PASS	
156	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
157	Beige plastic		ND	ND	ND	ND	<100*	PASS	
158	Silvery metal		ND	ND	ND	ND	NA	PASS	
159	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
160	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
161	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
162	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
163	Translucent plastic		ND	ND	ND	ND	ND	PASS	
164	Black plastic		ND	ND	ND	ND	<100*	PASS	
165	White plastic		ND	ND	ND	ND	ND	PASS	
166	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
167	Silvery metal solder		ND	ND	ND	ND	NA	PASS	
168	Black plastic		ND	ND	ND	ND	<100*	PASS	
169	Coppery metal contact point with silvery plating		ND	ND	ND	ND	NA	PASS	
170	White fabric with white glue		ND	ND	ND	ND	ND	PASS	
171	Black glue		ND	ND	ND	ND	ND	PASS	
172	Beige plastic		ND	ND	ND	ND	ND*	PASS	



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Result Lead Cadmiu Mercury Chromium PBBs & Conclusion Parameter (Pb) VI (Cr VI) **PBDEs** m (Cd) (Hg) Unit mg/kg mg/kg mg/kg mg/kg mg/kg Test **Description** Location **Item** 173 Silvery metal solder ND ND ND ND NA PASS PASS 174 Silvery metal solder ND ND ND ND NA 175 White plastic ND ND ND ND ND* PASS 176 ND ND ND Transparent glue ND ND **PASS** 177 Silvery metal solder ND ND ND ND NA **PASS** 178 Black glue ND ND ND ND ND **PASS** 179 ND ND* Blue plastic ND ND ND **PASS** 180 Silvery metal solder ND ND ND ND NA **PASS** Black plastic 181 ND ND ND ND ND **PASS** 182 Black plastic ND ND ND ND ND **PASS** 183 Silvery metal ND ND ND ND NA **PASS** 184 Brown paper ND ND ND ND ND **PASS** 185 Silvery metal solder ND ND ND ND NA **PASS** ND ND NA PASS 186 Silvery metal solder ND ND 187 ND ND ND ND NA PASS Silvery metal solder ND ND* PASS 188 Green plastic ND ND ND 189 Black plastic ND ND ND ND ND **PASS** 190 Silvery metal solder ND ND ND ND NA **PASS** 191 Silvery metal solder ND ND NA **PASS** ND ND Carte 192 Silvery metal solder ND ND ND ND NA **PASS** 193 White plastic ND ND ND ND ND* **PASS** 194 Silvery metal solder ND ND ND ND NA PASS 195 Silvery metal solder ND ND ND ND NA PASS 196 Silvery metal solder ND ND ND ND NA **PASS** 197 Silvery metal ND ND ND ND NA **PASS** 198 Silvery metal solder ND ND ND ND NA **PASS** 199 Silvery metal solder ND ND ND ND NA **PASS** 200 Silvery metal solder ND ND ND ND NA **PASS** 201 Silvery metal solder ND ND ND ND NA **PASS** 202 Silvery metal solder ND ND ND ND NA **PASS** 203 Silvery metal solder ND ND ND ND NA **PASS** Coppery metal contact 204 point with silvery ND ND ND ND NA **PASS** plating 205 ND Silvery metal solder ND ND ND NA **PASS** 206 Silvery metal solder ND ND ND ND NA **PASS** Coppery metal contact 207 ND point with silvery ND ND ND NA **PASS** Carte plating 208 Silvery metal solder ND ND ND ND NA **PASS** 209 Silvery metal solder ND ND ND ND NA **PASS** Silvery metal solder 210 ND ND ND ND NA PASS Silvery metal solder PASS 211 ND ND ND ND NA 212 Silvery metal solder ND ND ND ND NA PASS 213 Black plastic ND ND ND ND ND* PASS



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	-				R	esult		
	Parameter		Lead	Cadmiu	Mercury	Chromium	PBBs &	Conclusion
			(Pb)	m (Cd)	(Hg)	VI (Cr VI)	PBDEs	
TD. 4	Unit		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item	Description	Location	-	-	-	-	-	-
214	Black plastic		ND	ND	ND	ND	ND	PASS
215	Silvery metal solder		ND	ND	ND	ND	NA	PASS
216	Silvery metal solder		ND	ND	ND	ND	NA	PASS
217	Orange plastic		ND	ND	ND	ND	ND*	PASS
218	Orange plastic		ND	ND	ND	ND	ND*	PASS
219	Silvery metal solder		ND	ND	ND	ND	NA	PASS
220	Coppery metal contact point with silvery plating		ND	ND	ND	ND	NA	PASS
221	Pink glue		ND	ND	ND	ND	ND	PASS
222	Silvery metal solder		ND	ND	ND	ND	NA	PASS
223	Silvery metal solder		ND	ND	ND	ND	NA	PASS
224	Silvery metal solder		ND	ND	ND	ND	NA	PASS
225	Silvery metal solder		ND	ND	ND	ND	NA	PASS
226	Coppery metal contact point with silvery plating		ND	ND	ND	ND	NA	PASS
227	Silvery metal solder		ND	ND	ND	ND	NA	PASS
228	Black plastic		ND	ND	ND	ND	ND*	PASS
229	Blue plastic		ND	ND	ND	ND	ND	PASS
230	Black plastic		ND	ND	ND	ND	ND	PASS
231	Black plastic		ND	ND	ND	ND	ND	PASS
232	Grey plastic		ND	ND	ND	ND	ND*	PASS
233	Green plastic		ND	ND	ND	ND	ND	PASS
234	Silvery metal solder		ND	ND	ND	ND	NA	PASS
235	Yellow plastic		ND	ND	ND	ND	ND	PASS
236	Brown plastic		ND	ND	ND	ND	ND	PASS
237	Black plastic		ND	ND	ND	ND	ND	PASS
238	Yellow and red plastic wire jacket		ND	ND	ND	ND	ND	PASS
239	Yellow and black plastic wire jacket		ND	ND	ND	ND	ND	PASS
240	Yellow and white plastic wire jacket		ND	ND	ND	ND	ND	PASS
241	Green and white plastic wire jacket		ND	ND	ND	ND	ND	PASS
242	Green and yellow plastic wire jacket		ND	ND	ND	ND	ND	PASS
243	Green plastic wire jacket		ND	ND	ND	ND	ND	PASS
244	Red plastic wire jacket		ND	ND	ND	ND	ND	PASS
245	Red and white plastic wire jacket		ND	ND	ND	ND	ND	PASS
246	White plastic wire jacket		ND	ND	ND	ND	ND	PASS



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	-				R	esult		
	Parameter		Lead (Pb)	Cadmiu m (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs & PBDEs	Conclusion
	Unit		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item	Description	Location	-	-	-	-	-	-
247	Grey plastic wire jacket		ND	ND	ND	ND	ND	PASS
248	Black plastic wire jacket		ND	ND	ND	ND	ND	PASS
249	Black ang white plastic wire jacket		ND	ND	ND	ND	ND	PASS
250	Pink plastic wire jacket		ND	ND	ND	ND	ND	PASS
251	Orange plastic wire jacket		ND	ND	ND	ND	ND	PASS
252	Purple plastic wire jacket		ND	ND	ND	ND	ND	PASS
253	Blue plastic wire jacket		ND	ND	ND	ND	ND	PASS
254	Blue and white plastic wire jacket		ND	ND	ND	ND	ND	PASS
255	Black glue		ND	ND	ND	ND	ND	PASS
256	Black plastic		ND	ND	ND	ND	ND	PASS
257	Grey plastic		ND	ND	ND	ND	ND	PASS
258	Black plastic		ND	ND	ND	ND	ND	PASS
259	Grey plastic		ND	ND	ND	ND	ND	PASS
260	Coppery metal contact point with silvery		ND	ND	ND	ND	NA	PASS
261	plating Beige glue		ND	ND	ND	ND	ND	PASS
262	Silvery metal solder		ND	ND	ND	ND	NA	PASS
263	Black plastic		ND	ND	ND	ND	ND	PASS
264	Silvery metal solder		ND	ND	ND	ND	NA	PASS
265	Black plastic		ND	ND	ND	ND	ND	PASS
266	Silvery metal solder		ND	ND	ND	ND	NA	PASS
267	Black plastic		ND	ND	ND	ND	ND	PASS
268	Silvery metal solder		ND	ND	ND	ND	NA	PASS
269	White plastic wire jacket		ND	ND	ND	ND	ND	PASS
270	White plastic wire jacket	Carte	ND	ND	ND	ND	ND	PASS
271	Coppery metal contact point with golden plating		ND	ND	ND	ND	NA	PASS
272	Blue plastic		ND	ND	ND	ND	ND	PASS
273	Transparent plastic		ND	ND	ND	ND	ND	PASS
274	Red plastic		ND	ND	ND	ND	ND	PASS
275	Blue plastic		ND	ND	ND	ND	ND	PASS
276	Coppery metal		ND	ND	ND	ND	NA	PASS
277	Silvery metal		ND	ND	ND	ND	NA	PASS
278	Yellow plastic		ND	ND	ND	ND	ND	PASS
279	Blue plastic		ND	ND	ND	ND	ND	PASS
280	Green plastic		ND	ND	ND	ND	ND	PASS



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	=				R	esult		
	Parameter		Lead (Pb)	Cadmiu m (Cd)		Chromium VI (Cr VI)	PBBs & PBDEs	Conclusion
	Unit		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item	Description	Location	-	-	-	-	-	-
281	White plastic		ND	ND	ND	ND	ND	PASS
282	White plastic		ND	ND	ND	ND	ND	PASS
283	Transparent plastic		ND	ND	ND	ND	ND	PASS
284	Black plastic		ND	ND	ND	ND	ND	PASS
285	Black plastic wire jacket		ND	ND	ND	ND	ND	PASS
286	Red plastic wire jacket		ND	ND	ND	ND	ND	PASS
287	Brown plastic wire jacket	Carte	ND	ND	ND	ND	ND	PASS
288	White plastic wire jacket		ND	ND	ND	ND	ND	PASS
289	Black plastic wire jacket		ND	ND	ND	ND	ND	PASS
290	Blue plastic wire jacket		ND	ND	ND	ND	ND	PASS
291	Green plastic wire jacket		ND	ND	ND	ND	ND	PASS
292	Yellow plastic wire jacket		ND	ND	ND	ND	ND	PASS
293	Orange plastic wire jacket		ND	ND	ND	ND	ND	PASS
294	Red plastic wire jacket	Carte	ND	ND	ND	ND	ND	PASS
295	Blue plastic		ND	ND	ND	ND	ND	PASS
296	Brown plastic wire jacket		ND	ND	ND	ND	ND	PASS
297	Blue plastic wire jacket		ND	ND	ND	ND	ND	PASS
298	Green and yellow plastic wire jacket		ND	ND	ND	ND	ND	PASS
299	Silvery metal solder		ND	ND	ND	ND	NA	PASS
300	Silvery metal solder		ND	ND	ND	ND	NA	PASS
301	Silvery metal solder		ND	ND	ND	ND	NA	PASS
302	Yellow coating	Цоната	ND	ND	ND	ND	ND	PASS
303	Green coating	Housing	ND	ND	ND	ND	ND	PASS



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Note / Key:

ND = Not detected ">" = Greater than "<" = Less than NR = Not requested mg/kg = milligram(s) per kilogram = ppm = part(s) per million Detection Limit: See Appendix. NA = Not applicable EX= Exempted

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.
- Only selected example(s) is (are) indicated on the photograph(s) in Comment.
- 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.



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TEST RESULT

Compliance Test - Phthalate Test - (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : Reference to IEC 62321-8: 2017.

Maximum Allowable Limit: 0.1% (Each)

				Result		
Parameter	CAS No.	Unit	MDL	238+239+240+241+ 242+243+244+245+ 246+247+248+249+ 250+251+252+253+ 254+257+258+259	269+270+272+273+ 274+275+278+279+ 280+281+282+283+ 284+285+286+287+ 288+289+290+291	
Dibutyl phthalate (DBP)	84-74-2	%	0.005	ND	ND	
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005	ND	ND	
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005	ND	ND	
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	ND	ND	
Conclusion	-	-	-	PASS	PASS	

				Result			
Parameter	CAS No.	Unit	MDL	292+293+294+295+ 296+297+298	4+5+6+7+8+9+10+16 +17+18+19+21+22+ 24+25+28+30+31+32 +33		
Dibutyl phthalate (DBP)	84-74-2	%	0.005	ND	ND		
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005	ND	ND		
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005	ND	ND		
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	ND	ND		
Conclusion	-	-	-	PASS	PASS		

	CAS No.	Unit	MDL	Result		
Parameter				132+133+134+135+ 136+137+138+139+ 140+141+142+143+ 144+145+146+147+ 148+151+153	154+155+157+163+ 164+165+168+170+ 171+172+175+176+ 178+179+181+182+ 184+188+189+193	
Dibutyl phthalate (DBP)	84-74-2	%	0.005	ND	ND	
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005	ND	ND	
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005	ND	ND	
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	ND	ND	
Conclusion	-	_	-	PASS	PASS	



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				Result		
Parameter	CAS No.	Unit	MDL	213+214+217+218+ 221+228+229+230+ 231+232+233+235+ 236+237+255+256+ 261+263+265+267	302+303	
Dibutyl phthalate (DBP)	84-74-2	%	0.005	ND	ND	
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005	ND	ND	
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005	ND	ND	
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	ND	ND	
Conclusion	_	_	_	PASS	PASS	

Note: mg/kg = milligram per kilogram % = percentage 1 mg/kg = 0.0001%

MDL = Method Detection Limit ND = Not Detected (< MDL) "-" = Not Regulated

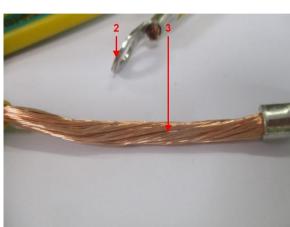


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Comment:

Photograph(s) [Compliance Test for European Parliament and Council Directive 2011/65/EU] : Photograph depicting Test Item(s)











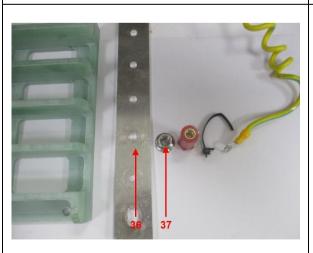
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13 14 15







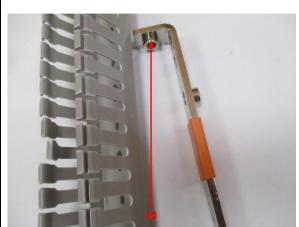




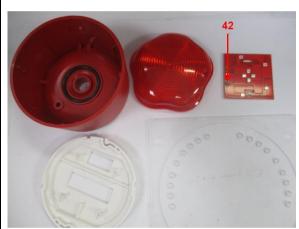


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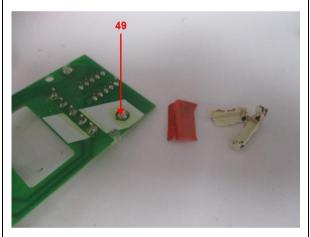


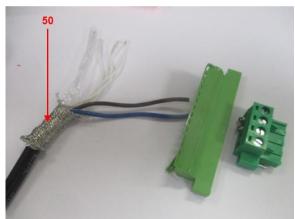


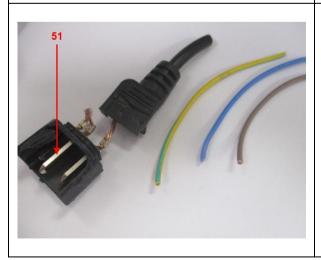
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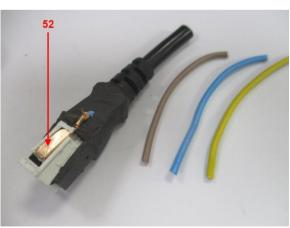






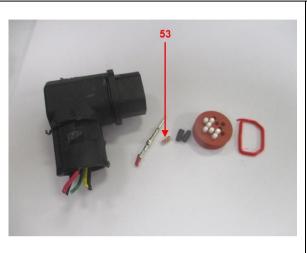


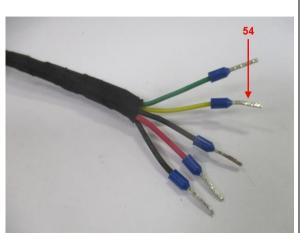




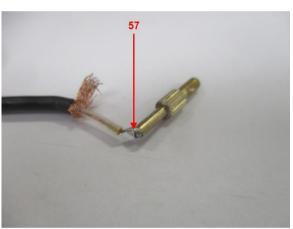


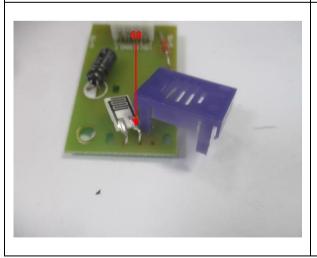
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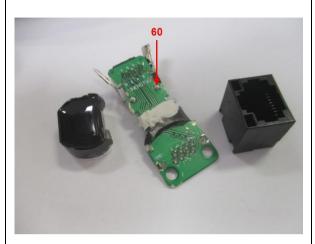


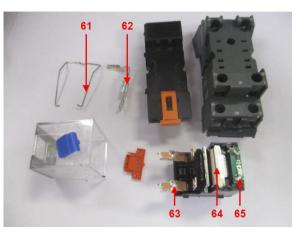


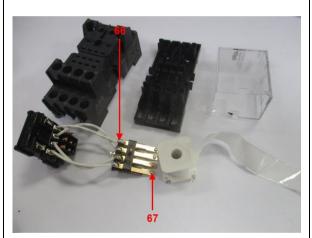


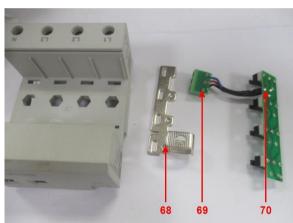


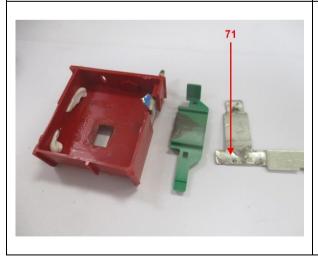
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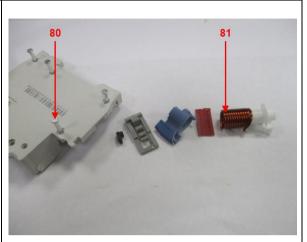


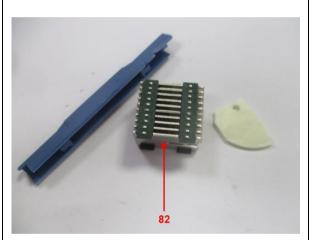




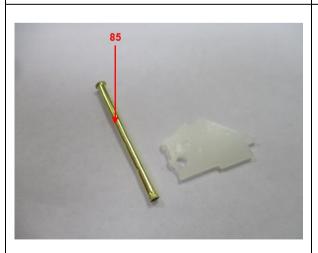
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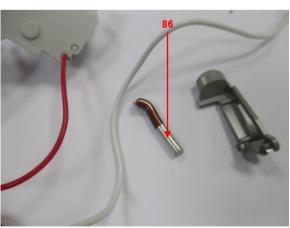
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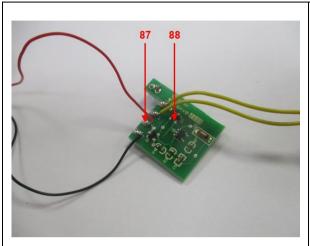


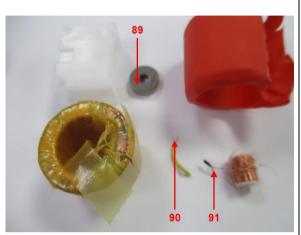






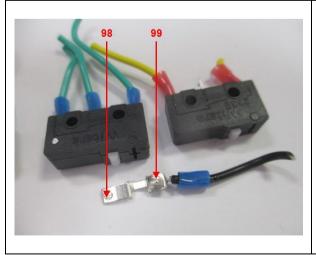
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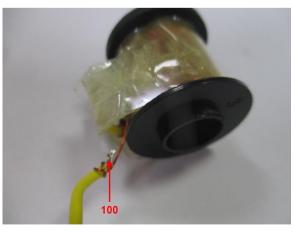






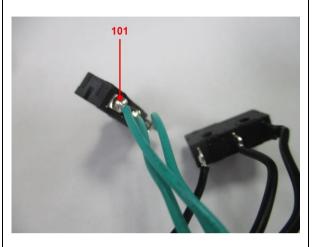


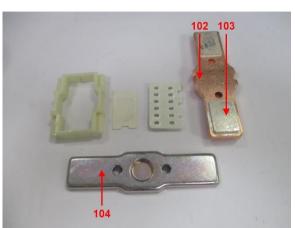


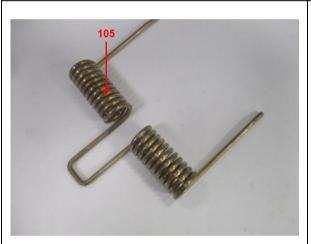


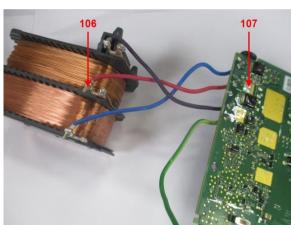


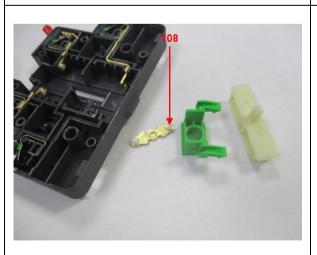
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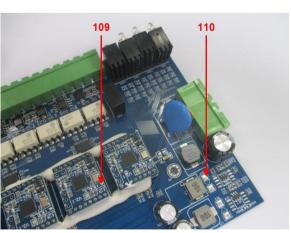








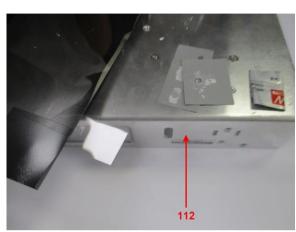






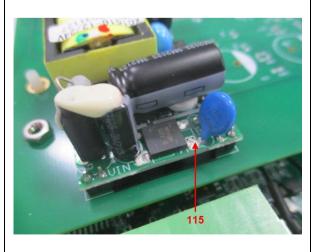
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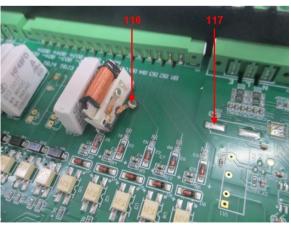














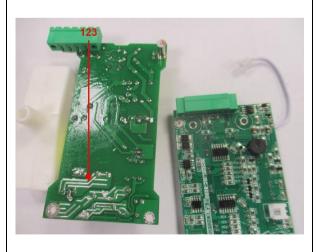
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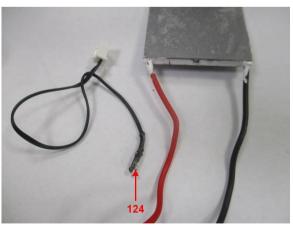








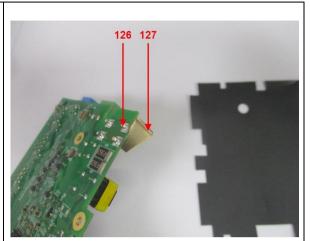






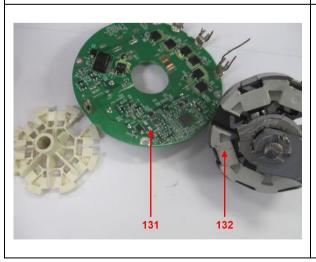
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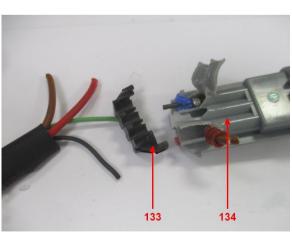
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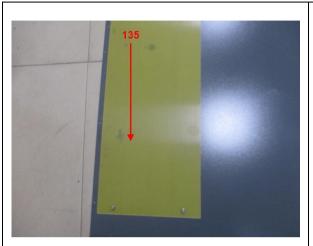




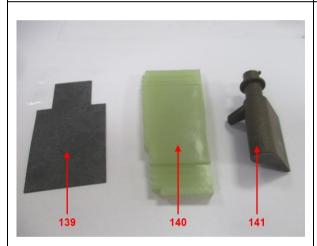


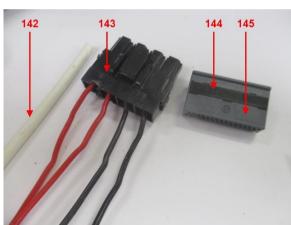


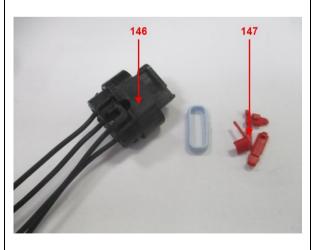
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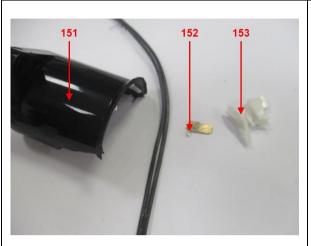




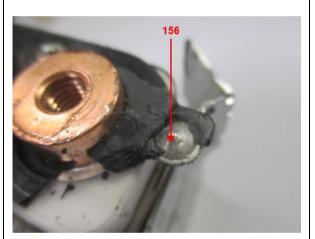


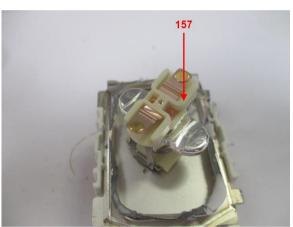


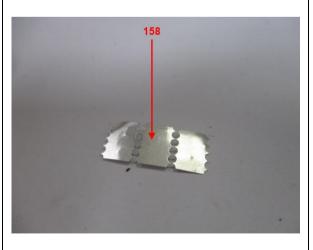
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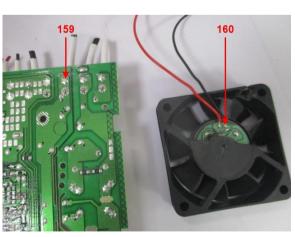








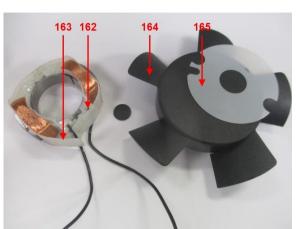




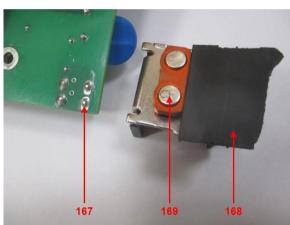


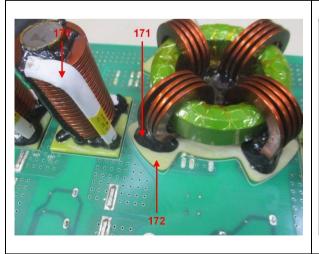
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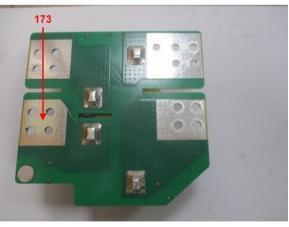








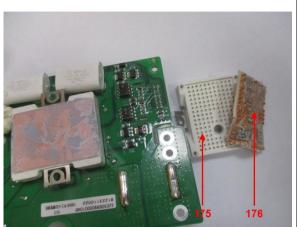


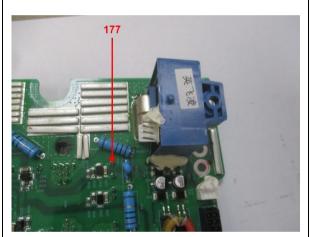


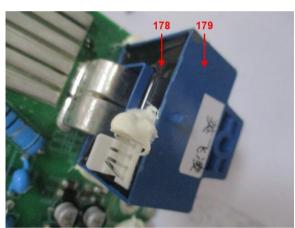


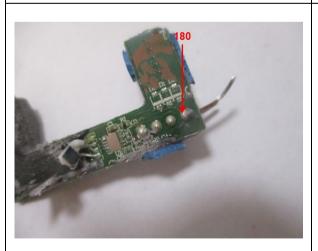
LAB NO. : (6624)087-1033 DATE : April 15, 2024 PAGE : 30 OF 41

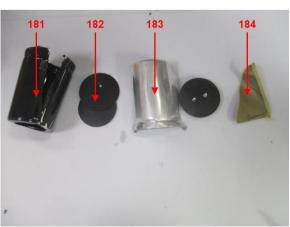






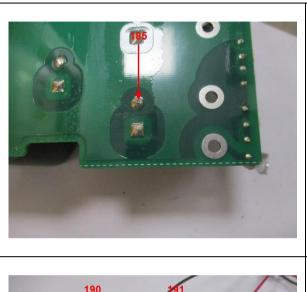


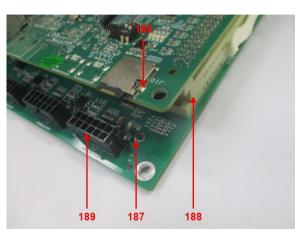


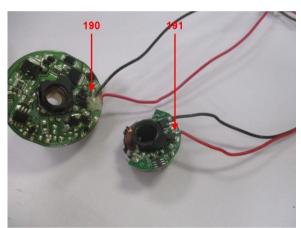


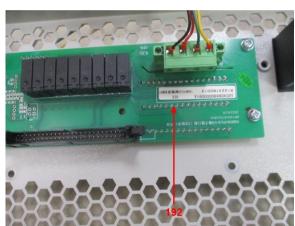


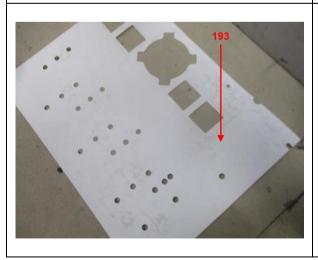
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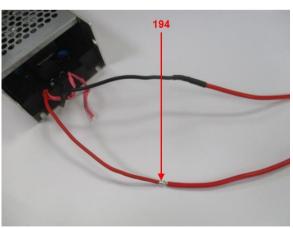






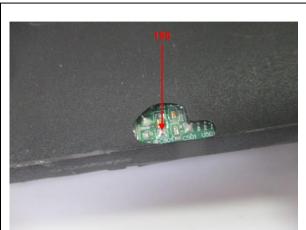


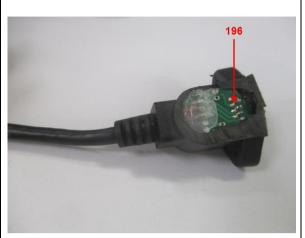


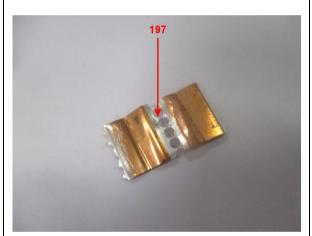




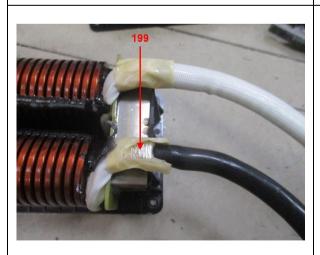
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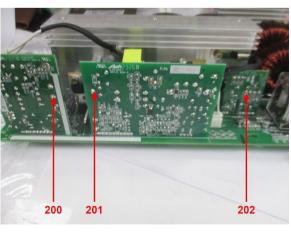






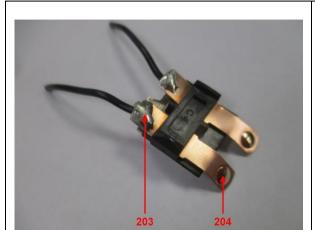


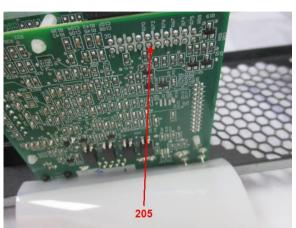


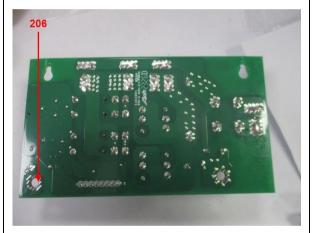


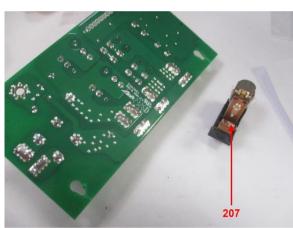


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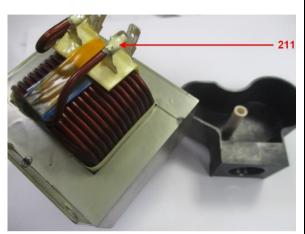


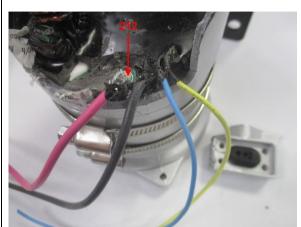


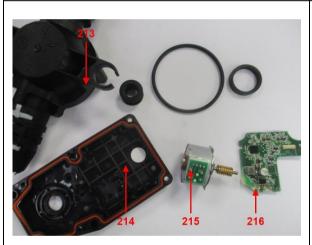




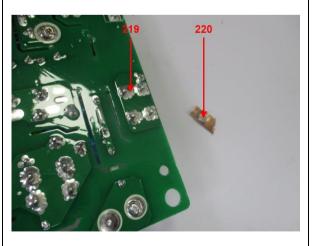
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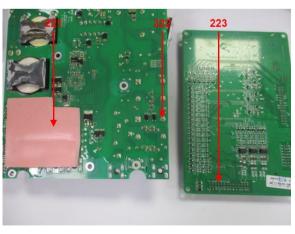






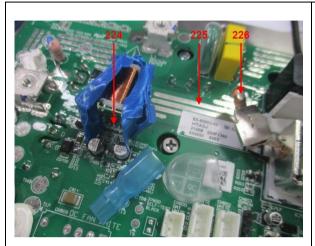








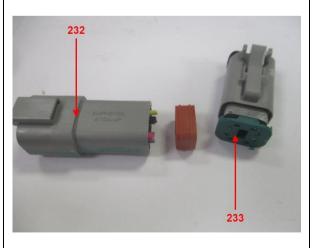
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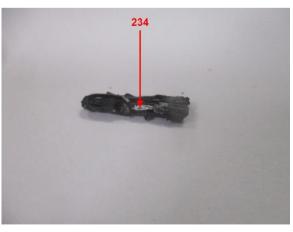






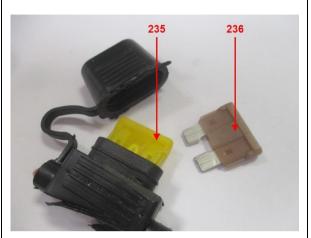








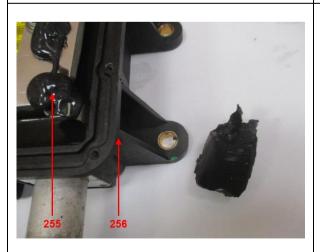
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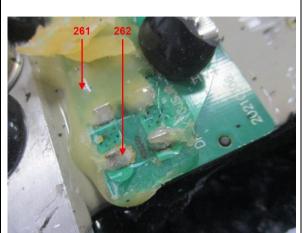


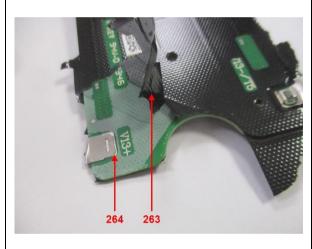


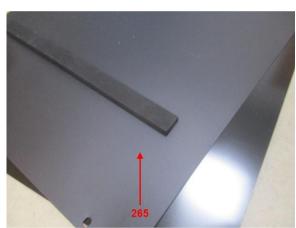


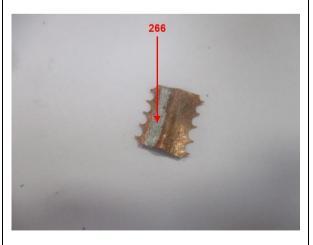
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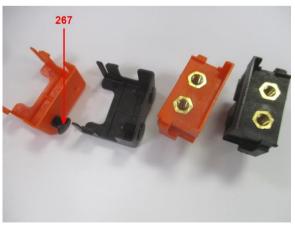
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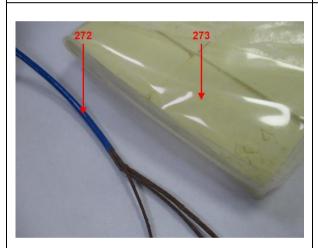


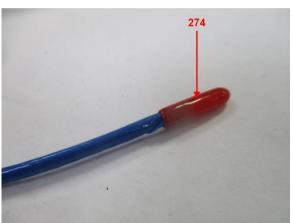




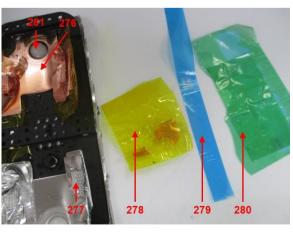
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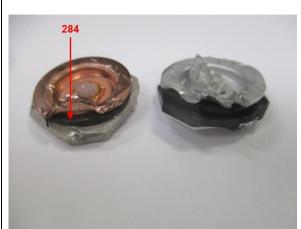


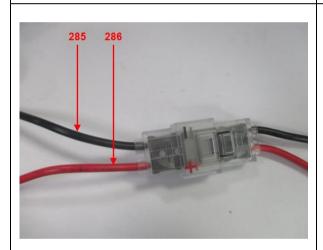


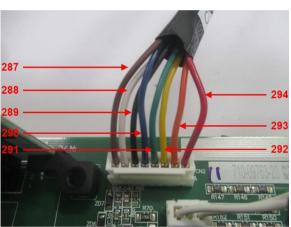


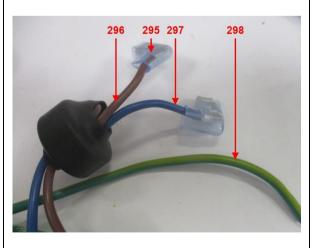
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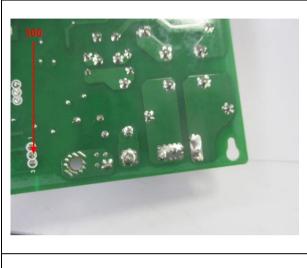


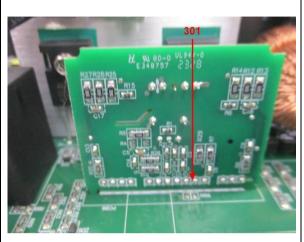


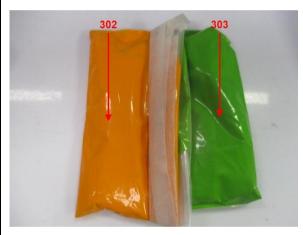




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APPENDIX

			Detection I			
No.	Name of Analyte(s)	X-ra	y fluorescence (X	RF) ^[a]	Wet Chemistry	Maximum Allowable Limit (mg/kg)
No. Name	Name of Analyte(s)	Plastic	Metallic / glass / ceramic	Others		
1	Lead (Pb)	100	200	200	10 ^[b]	1000
2	Cadmium (Cd)	50	50	50	10 ^[b]	100
3	Mercury (Hg)	100	200	200	10 ^[c]	1000
4	Chromium (Cr)	100	200	200	NA	NA
5	Chromium VI (Cr VI)	NA	NA	NA	3 ^[g, h] / 10 ^[d] / See ^[e, i]	1000 / Negative ^[i]
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 1000
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 1000

- NA = Not applicable IEC = International Electrotechnical Commission
- Test method with reference to International Standard IEC 62321-3-1: 2013.
- Test method with reference to International Standard IEC 62321-5: 2013.
- Test method with reference to International Standard IEC 62321-4: 2013+AMD1: 2017.
- Polymers and Electronics Test method with reference to International Standard IEC 62321-7-2: 2017.
- [e] Metal Test method with reference to International Standard IEC 62321-7-1: 2015.
- Test method with reference to International Standard IEC 62321-6: 2015.
- Leather Test method International Standard ISO 17075: 2017.
- Other Than Metal, Leather, Polymers and Electronics Test method with reference to International Standard ISO 17075: 2017.
- 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).
- Test method with reference to International Standard IEC 62321-8: 2017

$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: 2021
- 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)