

# TEST REPORT

REPORT No.: R2SC130530F0221E -M1

Date: June 25, 2013

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Hangzhou Huatai Optic Tech. Co., Ltd.  
Zhejiang Guangtai Optic Tech. Co.,Ltd.  
2-2-4/F, No. 224 Tianmushan Road, Hangzhou 310012, P.R. China

This report is to supersede test report No. R2SC130530F0221E Date: June 24, 2013.

Report on the submitted samples said to be:

Sample Name : Optical Receiver

Tested Style /Item No. : NGB-9924

Additional Style/ Item No. : NGB-9912

Remark : As claimed by the material declaration submitted by the client, the material of Additional Style/ Item No. is the same as the tested Style/ Item No. NGB-9924. But the results only for the tested sample. And the applicant will undertake all differences and risk.

Sample Receiving Date : May 30, 2013

Testing Period : From May 30, 2013 to June 24, 2013

Results : Please refer to next page(s).

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**Summary of Test Results:**

**TEST REQUEST**

A EU RoHS Directive 2011/65/EU -XRF and Chemical test(Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs content)

**CONCLUSION**

**Pass**

Signed for and on behalf of  
BACL



Checked by: \_\_\_\_\_  
Hilary He  
Technical Supervisor

Approved by: \_\_\_\_\_  
William Wei  
Laboratory Manager

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**Results:**

**A. EU RoHS Directive 2011/65/EU on XRF**

Test method: With reference to IEC 62321 Ed 1.0:2008, Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
1	Black printed silvery plastic(sticker, case)	BL	BL	BL	BL	BL
2*	Silvery metal(screw, case)	BL	BL	BL	X	---
3*	Silvery metal(big washer, screw, case)	BL	BL	BL	X	---
4	Silvery metal(small washer, screw, case)	BL	BL	BL	BL	---
5	Silvery metal(set screw, case)	BL	BL	BL	BL	---
6	Silvery metal(nut, set screw, case)	BL	BL	BL	BL	---
7	Silvery metal(big washer, set screw, case)	BL	BL	BL	BL	---
8	Silvery metal(small washer, set screw, case)	BL	BL	BL	BL	---
9	Silvery metal(plate, set screw, case)	BL	BL	BL	BL	---
10*	Silvery metal(small seal screw, case)	BL	BL	BL	X	---
11	Black plastic(washer, small seal screw, case)	BL	BL	BL	BL	---
12	Silvery metal(joint screw)	BL	BL	BL	BL	---
13* <sup>4</sup>	Anti-silvery metal(case)	OL	BL	BL	BL	---
14*	Silvery metal(big seal screw, case)	BL	BL	BL	X	---
15	Black plastic(washer, big seal screw, case)	BL	BL	BL	BL	BL
16	Grey plastic(sealing ring, case)	BL	BL	BL	BL	BL
17	Black plastic(sealing ring, case)	BL	BL	BL	BL	BL
18	Silvery metal(sleeve, sealing ring, case)	BL	BL	BL	BL	---
19	Silvery metal(big screw, PCB"HT8604-01")	BL	BL	BL	BL	---
20	Silvery metal(middle screw, PCB"HT8604-01")	BL	BL	BL	BL	---
21	Silvery metal(small screw, PCB"HT8604-01")	BL	BL	BL	BL	---

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
22 <sup>*1</sup>	Coppery metal(screw, PCB“HT8604-01”)	OL	BL	BL	BL	---
23	Silvery metal(body, connector)	BL	BL	BL	BL	---
24	Silvery metal(shaft, connector)	BL	BL	BL	BL	---
25	Silvery metal(shaft holder, connector)	BL	BL	BL	BL	---
26	Silvery metal(screw, shaft holder, connector)	BL	BL	BL	BL	---
27	Black plastic(washer, connector)	BL	BL	BL	BL	BL
28	White plastic(connector)	BL	BL	BL	BL	BL
29	Off white plastic(wire fixer, indicator board)	BL	BL	BL	BL	BL
30*	White printed brown fiber(indicator board)	BL	BL	BL	BL	X
31	Silvery metal(screw, component, indicator board)	BL	BL	BL	BL	---
32	Silvery metal(holder, component, indicator board)	BL	BL	BL	BL	---
33	Silvery metal(screw case, component, indicator board)	BL	BL	BL	BL	---
34	Green plastic(component, indicator board)	BL	BL	BL	BL	BL
35	Dark green plastic(component, indicator board)	BL	BL	BL	BL	BL
36	Silvery metal(spring, component, indicator board)	BL	BL	BL	BL	---
37	Silvery metal(nut case, component, indicator board)	BL	BL	BL	BL	---
38	Silvery metal(tube, component, indicator board)	BL	BL	BL	BL	---
39	Silvery metal(inner screw, component, indicator board)	BL	BL	BL	BL	---
40	Silvery metal(core fixer, component, indicator board)	BL	BL	BL	BL	---
41 <sup>*1</sup>	Silvery metal(core, component, indicator board)	OL	BL	BL	BL	---
42	White plastic(core, component, indicator board)	BL	BL	BL	BL	BL
43	Silvery metal(cover, PCB“HT-RSNMP-01”)	BL	BL	BL	BL	---
44	Silvery metal(fixed plate, PCB“HT-RSNMP-01”)	BL	BL	BL	BL	---
45*	Silvery metal(nut, fixed plate, PCB“HT-RSNMP-01”)	BL	BL	BL	X	---

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
46	White plastic(plug, PCB"HT-RSNMP-01")	BL	BL	BL	BL	BL
47	Silver metal(plug, PCB"HT-RSNMP-01")	BL	BL	BL	BL	---
48*	Black plastic(socket"J1", PCB"HT-RSNMP-01")	BL	BL	BL	BL	X
49	Golden metal(contact plate, socket"J1", PCB"HT-RSNMP-01")	BL	BL	BL	BL	---
50	Silvery metal(case, socket"RJ45", PCB"HT-RSNMP-01")	BL	BL	BL	BL	---
51*	Black plastic(case, socket"RJ45", PCB"HT-RSNMP-01")	BL	BL	BL	BL	X
52	Yellow plastic(film, socket"RJ45", PCB"HT-RSNMP-01")	BL	BL	BL	BL	BL
53	Silvery plated golden metal(contact plate, socket"RJ45", PCB"HT-RSNMP-01")	BL	BL	BL	BL	---
54	Black magnet(inductor, PCB, socket"RJ45", PCB"HT-RSNMP-01")	BL	BL	BL	BL	---
55	Coppery metal(coil, inductor, PCB, socket"RJ45", PCB"HT-RSNMP-01")	BL	BL	BL	BL	---
56	Brown body(SMD capacitor, PCB, socket"RJ45", PCB"HT-RSNMP-01")	BL	BL	BL	BL	BL
57	White printed black body(SMD resistor, PCB, socket"RJ45", PCB"HT-RSNMP-01")	BL	BL	BL	BL	BL
58	Silvery solder(PCB, socket"RJ45", PCB"HT-RSNMP-01")	BL	BL	BL	BL	---
59	Green printed white fiber with coppery metal(PCB, socket"RJ45", PCB"HT-RSNMP-01")	BL	BL	BL	BL	BL
60	Orange printed white ceramic(EC, PCB"HT-RSNMP-01")	BL	BL	BL	BL	---
61	Black body(big EC, PCB"HT-RSNMP-01")	BL	BL	BL	BL	BL
62	Black body(small EC, PCB"HT-RSNMP-01")	BL	BL	BL	BL	BL
63	Silvery metal(crystal, PCB"HT-RSNMP-01")	BL	BL	BL	BL	---
64	Yellow body(SMD capacitor, PCB"HT-RSNMP-01")	BL	BL	BL	BL	BL
65	Silvery solder(PCB"HT-RSNMP-01")	BL	BL	BL	BL	---
66	Green printed white fiber with coppery metal(PCB"HT-RSNMP-01")	BL	BL	BL	BL	BL
67*	Black plastic(plug, PCB"HR8604LED")	BL	BL	BL	BL	X
68	Silvery metal(plug, PCB"HR8604LED")	BL	BL	BL	BL	---
69	Black plastic(button, switch, PCB"HR8604LED")	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
70*	Black plastic(case, switch, PCB"HR8604LED")	BL	BL	BL	BL	X
71	Silvery metal(cover, switch, PCB"HR8604LED")	BL	BL	BL	BL	---
72	Silvery plated golden metal(contact plate, switch, PCB"HR8604LED")	BL	BL	BL	BL	---
73	Transparent plastic(film, EC, PCB"HR8604LED")	BL	BL	BL	BL	BL
74	Black printed white plastic(case, EC, PCB"HR8604LED")	BL	BL	BL	BL	BL
75*	Translucent plastic(EC, PCB"HR8604LED")	BL	BL	BL	BL	X
76	Black body(SMD transistor, PCB"HR8604LED")	BL	BL	BL	BL	BL
77	Silvery solder(PCB"HR8604LED")	BL	BL	BL	BL	---
78	Green printed white fiber with coppery metal(PCB"HR8604LED")	BL	BL	BL	BL	---
79	Yellow plastic(switch "ON/OFF", PCB"HT8604-01")	BL	BL	BL	BL	BL
80	Golden metal(pin, switch "ON/OFF", PCB"HT8604-01")	BL	BL	BL	BL	---
81	Silvery metal(screw, EC"FRIC1", PCB"HT8604-01")	BL	BL	BL	BL	---
82	Silvery metal(stator, EC"FRIC1", PCB"HT8604-01")	BL	BL	BL	BL	---
83	Black printed green plastic(case, EC"FRIC1", PCB"HT8604-01")	BL	BL	BL	BL	BL
84	Black magnet(inductor, PCB, EC"FRIC1", PCB"HT8604-01")	BL	BL	BL	BL	---
85	Coppery metal(coil, inductor, PCB, EC"FRIC1", PCB"HT8604-01")	BL	BL	BL	BL	---
86	Black body(EC, PCB, EC"FRIC1", PCB"HT8604-01")	BL	BL	BL	BL	BL
87	Silvery solder(PCB, EC"FRIC1", PCB"HT8604-01")	BL	BL	BL	BL	---
88	Green printed white ceramic(PCB, EC"FRIC1", PCB"HT8604-01")	BL	BL	BL	BL	---
89	Silvery metal(PCB holder, EC"FRIC1", PCB"HT8604-01")	BL	BL	BL	BL	---
90	Blue plastic(case, EC"B6", PCB"HT8604-01")	BL	BL	BL	BL	BL
91	Black printed silvery plastic(sticker, case, EC"B6", PCB"HT8604-01")	BL	BL	BL	BL	BL
92	Black magnet(inductor, PCB, EC"B6", PCB"HT8604-01")	BL	BL	BL	BL	---
93	Coppery metal(coil, inductor, PCB, EC"B6", PCB"HT8604-01")	BL	BL	BL	BL	---

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
94	Golden metal(pin, PCB, EC"B6", PCB"HT8604-01")	BL	BL	BL	BL	---
95	Silvery solder(PCB, EC"B6", PCB"HT8604-01")	BL	BL	BL	BL	---
96	Green printed white fiber with coppery metal(EC"B6", PCB"HT8604-01")	BL	BL	BL	BL	BL
97*	Off white plastic(case, EC"BP1", PCB"HT8604-01")	BL	BL	BL	BL	X
98	Golden metal(pin, PCB, EC"BP1", PCB"HT8604-01")	BL	BL	BL	BL	---
99	Silvery solder(PCB, EC"BP1", PCB"HT8604-01")	BL	BL	BL	BL	---
100	Green printed white fiber with coppery metal(PCB, EC"BP1", PCB"HT8604-01")	BL	BL	BL	BL	BL
101	Silvery metal(case, socket"J10", PCB"HT8604-01")	BL	BL	BL	BL	---
102	Silvery metal(holder, socket"J10", PCB"HT8604-01")	BL	BL	BL	BL	---
103	Golden metal(pin, socket"J10", PCB"HT8604-01")	BL	BL	BL	BL	---
104	White plastic(insulator, socket"J10", PCB"HT8604-01")	BL	BL	BL	BL	BL
105	Translucent plastic(socket"J14", PCB"HT8604-01")	BL	BL	BL	BL	BL
106	Silvery metal(socket"J14", PCB"HT8604-01")	BL	BL	BL	BL	---
107	Off white plastic(socket"P1", PCB"HT8604-01")	BL	BL	BL	BL	BL
108	Silvery metal(socket"P1", PCB"HT8604-01")	BL	BL	BL	BL	---
109*	Black plastic(socket, PCB"HT8604-01")	BL	BL	BL	BL	X
110	Golden metal(socket, PCB"HT8604-01")	BL	BL	BL	BL	---
111	Black magnet(inductor"L20", PCB"HT8604-01")	BL	BL	BL	BL	---
112	Coppery metal(coil, inductor"L20", PCB"HT8604-01")	BL	BL	BL	BL	---
113*	White printed blue plastic(case, inductor"L16", PCB"HT8604-01")	BL	BL	BL	BL	X
114	Black magnet(inductor"L16", PCB"HT8604-01")	BL	BL	BL	BL	---
115	Coppery metal(coil, inductor"L16", PCB"HT8604-01")	BL	BL	BL	BL	---
116	Silvery plated coppery metal(cap, EC"RV1", PCB"HT8604-01")	BL	BL	BL	BL	---
117	Red printed white ceramic(EC"RV1", PCB"HT8604-01")	BL	BL	BL	BL	---

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
118	White printed black plastic(sleeve, capacitor, PCB"HT8604-01")	BL	BL	BL	BL	BL
119	Silvery metal(case, capacitor, PCB"HT8604-01")	BL	BL	BL	BL	---
120	Black plastic(base, capacitor, PCB"HT8604-01")	BL	BL	BL	BL	BL
121	Silvery metal(connector, capacitor, PCB"HT8604-01")	BL	BL	BL	BL	---
122	Anti-silvery metal(foil, capacitor, PCB"HT8604-01")	BL	BL	BL	BL	---
123	Brown paper(film, capacitor, PCB"HT8604-01")	BL	BL	BL	BL	BL
124	Grey printed black plastic(diode, PCB"HT8604-01")	BL	BL	BL	BL	BL
125* <sup>3</sup>	Silvery plated coppery metal with silvery solder(diode, PCB"HT8604-01")	OL	BL	BL	BL	---
126	Red plastic(LED, PCB"HT8604-01")	BL	BL	BL	BL	BL
127	Silvery metal(LED, PCB"HT8604-01")	BL	BL	BL	BL	---
128	Blue body(capacitor, PCB"HT8604-01")	BL	BL	BL	BL	BL
129	Brown body(capacitor, PCB"HT8604-01")	BL	BL	BL	BL	BL
130	Yellow body(SMD capacitor, PCB"HT8604-01")	BL	BL	BL	BL	BL
131	Grey printed black body(EC"U1", PCB"HT8604-01")	BL	BL	BL	BL	BL
132	Black body(EC"U3", PCB"HT8604-01")	BL	BL	BL	BL	BL
133	Black body(EC"U6", PCB"HT8604-01")	BL	BL	BL	BL	BL
134	Silvery metal(crystal, PCB"HT8604-01")	BL	BL	BL	BL	---
135	Silvery metal(screw, connector, PCB"HT8604-01")	BL	BL	BL	BL	---
136	Silvery metal(stator, connector, PCB"HT8604-01")	BL	BL	BL	BL	---
137*	Black plastic(case, connector, PCB"HT8604-01")	BL	BL	BL	BL	X
138	Silvery plated coppery metal(body, connector, PCB"HT8604-01")	BL	BL	BL	BL	---
139	Silvery solder(PCB"HT8604-01")	BL	BL	BL	BL	---
140	Green printed brown fiber with coppery metal(PCB"HT8604-01")	BL	BL	BL	BL	BL
141	Silvery metal(box, PCB"WN35-60A")	BL	BL	BL	BL	---

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
142	Silvery metal(big screw, PCB“WN35-60A”)	BL	BL	BL	BL	---
143	Silvery metal(small screw, PCB“WN35-60A”)	BL	BL	BL	BL	---
144	Silvery metal(holder, transistor, PCB“WN35-60A”)	BL	BL	BL	BL	---
145	Black printed silvery plastic(sticker, box, PCB“WN35-60A”)	BL	BL	BL	BL	BL
146	Grey printed black plastic(sleeve, big black capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
147	Silvery metal(case, big black capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	---
148	Black plastic(base, big black capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
149	Brown fiber(base, big black capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
150*	Black plastic(top, big black capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	X
151	Silvery metal(pin, big black capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	---
152	Silvery metal(connector, big black capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	---
153	Silvery metal(foil, big black capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	---
154	Anti-silvery metal(foil, big black capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	---
155	Brown paper(film, big black capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
156	Transparent plastic(film, big black capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
157	White printed dark blue plastic(sleeve, dark blue capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
158	Silvery metal(case, dark blue capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	---
159	Black plastic(base, dark blue capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
160	Silvery metal(connector, dark blue capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	---
161	Silvery metal(foil, dark blue capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	---
162	Anti-silvery metal(foil, dark blue capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	---
163	Brown paper(film, dark blue capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
164	Transparent plastic(film, dark blue capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
165	Silvery printed blue plastic(sleeve, blue capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL

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		Pb	Cd	Hg	Cr	Br
166	Silvery metal(case, blue capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	---
167	Black plastic(base, blue capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
168	Silvery metal(connector, blue capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	---
169	Silvery metal(foil, blue capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	---
170	Anti-silvery metal(foil, blue capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	---
171	Brown paper(film, blue capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
172	Transparent plastic(film, blue capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
173	White printed brown plastic(sleeve, brown capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
174	Silvery metal(case, brown capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	---
175	Black plastic(base, brown capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
176	Silvery metal(connector, brown capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	---
177	Anti-silvery metal(foil, brown capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	---
178	Brown paper(film, brown capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
179	Transparent plastic(film, brown capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
180	White printed black plastic(sleeve, small black capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
181	Silvery metal(case, small black capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	---
182	Black plastic(base, small black capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
183	Silvery metal(connector, small black capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	---
184	Anti-silvery metal(foil, small black capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	---
185	Brown paper(film, small black capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
186	Transparent plastic(film, small black capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
187	Black printed brown plastic(case, capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
188	Silvery metal with silvery solder(pin, capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	---
189	Silvery metal(foil, capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	---

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
190	Black plastic(big transistor, PCB"WN35-60A")	BL	BL	BL	BL	BL
191	Silvery plated coppery metal with silvery solder(big transistor, PCB"WN35-60A")	BL	BL	BL	BL	---
192	Grey printed black plastic(big diode, PCB"WN35-60A")	BL	BL	BL	BL	BL
193 <sup>*3</sup>	Silvery plated coppery metal with silvery solder(big diode, PCB"WN35-60A")	OL	BL	BL	BL	---
194	Grey printed black plastic(small diode, PCB"WN35-60A")	BL	BL	BL	BL	BL
195 <sup>*3</sup>	Silvery plated coppery metal with silvery solder(small diode, PCB"WN35-60A")	OL	BL	BL	BL	---
196 <sup>*2</sup>	Black printed transparent glass(big glass diode, PCB"WN35-60A")	OL	BL	BL	BL	---
197 <sup>*3</sup>	Silvery plated coppery metal with silvery solder(big glass diode, PCB"WN35-60A")	OL	BL	BL	BL	---
198 <sup>*2</sup>	Black printed transparent glass(small glass diode, PCB"WN35-60A")	OL	BL	BL	BL	---
199 <sup>*3</sup>	Silvery plated coppery metal with silvery solder(small glass diode, PCB"WN35-60A")	OL	BL	BL	BL	---
200	Silvery metal(cap, big resistor, PCB"WN35-60A")	BL	BL	BL	BL	---
201	Grey printed black ceramic(big resistor, PCB"WN35-60A")	BL	BL	BL	BL	---
202	Silvery metal(cap, middle resistor, PCB"WN35-60A")	BL	BL	BL	BL	---
203	Yellow printed black ceramic(middle resistor, PCB"WN35-60A")	BL	BL	BL	BL	---
204	Silvery metal(cap, small resistor, PCB"WN35-60A")	BL	BL	BL	BL	---
205	Blue printed black ceramic(small resistor, PCB"WN35-60A")	BL	BL	BL	BL	---
206	Yellow plastic(film, big transformer, PCB"WN35-60A")	BL	BL	BL	BL	BL
207	Black plastic(big transformer, PCB"WN35-60A")	BL	BL	BL	BL	BL
208	Black magnet(big transformer, PCB"WN35-60A")	BL	BL	BL	BL	---
209	Coppery metal(coil, big transformer, PCB"WN35-60A")	BL	BL	BL	BL	---
210	Silvery metal(holder, small transformer, PCB"WN35-60A")	BL	BL	BL	BL	---
211	Black plastic(small transformer, PCB"WN35-60A")	BL	BL	BL	BL	BL
212	Black magnet(small transformer, PCB"WN35-60A")	BL	BL	BL	BL	---
213	Coppery metal(coil, small transformer, PCB"WN35-60A")	BL	BL	BL	BL	---

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
214	Black plastic(sleeve, big inductor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
215	Black magnet(big inductor, PCB“WN35-60A”)	BL	BL	BL	BL	---
216	Red plated coppery metal(coil, big inductor, PCB“WN35-60A”)	BL	BL	BL	BL	---
217	Black plastic(sleeve, middle inductor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
218	Black magnet(middle inductor, PCB“WN35-60A”)	BL	BL	BL	BL	---
219	Red plated coppery metal(coil, middle inductor, PCB“WN35-60A”)	BL	BL	BL	BL	---
220	Blue plastic(sleeve, small inductor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
221	Black magnet(small inductor, PCB“WN35-60A”)	BL	BL	BL	BL	---
222	Red plated coppery metal(coil, small inductor, PCB“WN35-60A”)	BL	BL	BL	BL	---
223	White plastic(socket, PCB“WN35-60A”)	BL	BL	BL	BL	BL
224	Silvery metal(socket, PCB“WN35-60A”)	BL	BL	BL	BL	---
225*	Transparent plastic(LED, PCB“WN35-60A”)	BL	BL	BL	BL	X
226	Silvery metal(LED, PCB“WN35-60A”)	BL	BL	BL	BL	---
227*	Black plastic(case, fuse, PCB“WN35-60A”)	BL	BL	BL	BL	X
228	Silvery metal(contact plate, fuse, PCB“WN35-60A”)	BL	BL	BL	BL	---
229	Silvery metal(cap, fuse, PCB“WN35-60A”)	BL	BL	BL	BL	---
230	Transparent glass(fuse, PCB“WN35-60A”)	BL	BL	BL	BL	---
231	Silvery metal(wire, fuse, PCB“WN35-60A”)	BL	BL	BL	BL	---
232	Orange plastic(EC, PCB“WN35-60A”)	BL	BL	BL	BL	BL
233	Black plastic(EC, PCB“WN35-60A”)	BL	BL	BL	BL	BL
234	Silvery metal(EC, PCB“WN35-60A”)	BL	BL	BL	BL	---
235	Yellow body(capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
236	Brick red body(capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
237	Blue body(capacitor, PCB“WN35-60A”)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
238	Black body(small transistor, PCB“WN35-60A”)	BL	BL	BL	BL	BL
239	Black body(big EC, PCB“WN35-60A”)	BL	BL	BL	BL	BL
240	Black body(small EC, PCB“WN35-60A”)	BL	BL	BL	BL	BL
241	Silvery solder(PCB“WN35-60A”)	BL	BL	BL	BL	---
242	Green printed brown fiber with coppery metal(PCB“WN35-60A”)	BL	BL	BL	BL	BL
243	Green plastic(sleeve, wire)	BL	BL	BL	BL	BL
244	Translucent plastic(big plug, wire)	BL	BL	BL	BL	BL
245	Silvery metal(contact plate, big plug, wire)	BL	BL	BL	BL	---
246	White plastic(middle plug, wire)	BL	BL	BL	BL	BL
247	Silvery metal(contact plate, middle plug, wire)	BL	BL	BL	BL	---
248*	Off white plastic(small plug, wire)	BL	BL	BL	BL	X
249	Silvery metal(contact plate, small plug, wire)	BL	BL	BL	BL	---
250	Red PVC(thick wire jacket)	BL	BL	BL	BL	BL
251	Black PVC(thick wire jacket)	BL	BL	BL	BL	BL
252	Brown PVC(thick wire jacket)	BL	BL	BL	BL	BL
253	Black PVC(thin wire jacket)	BL	BL	BL	BL	BL
254	White PVC(thin wire jacket)	BL	BL	BL	BL	BL
255	Grey PVC(thin wire jacket)	BL	BL	BL	BL	BL
256	Purple PVC(thin wire jacket)	BL	BL	BL	BL	BL
257	Coppery metal(wire)	BL	BL	BL	BL	---

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- = Not Conducted
- \*<sup>1</sup> = As claimed by the material declaration submitted by the client, the materials of the sample No. 22, 41 is copper alloy. And according to 2011/65/EU, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.
- \*<sup>2</sup> = As claimed by the material declaration submitted by the client, the materials of the sample No.196, 198 are glass. And according to 2011/65/EU, Lead is exempted in glass of cathode ray tubes, electronic components and fluorescent tubes.
- \*<sup>3</sup> = As claimed by the material declaration submitted by the client, the materials of the sample No. 125, 193, 195, 197, 199, are high melting temperature type solders. And according to 2011/65/EU, Lead is exempted in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).
- \*<sup>4</sup> = As claimed by the material declaration submitted by the client, the materials of the sample No. 13 is Aluminium alloy. And according to RoHS directive 2011/65/EU, Lead is exempted as alloying element in Aluminium containing up to 0.4% (4000ppm) by weight.

Remark:

- i Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321 Ed 1.0:2008.

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Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ<X <130+3σ≤OL	BL≤70-3σ<X <130+3σ≤OL	BL≤50-3σ<X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ<X	BL≤700-3σ<X	BL≤500-3σ<X
Br	mg/kg	BL≤300-3σ<X	--	BL≤250-3σ<X

Note:

- BL = Below Limit
- OL = Over Limit
- X = Inconclusive

- ii The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- iii The maximum permissible limit is quoted from the document 2011/65/EU:
- Photo appendix is included.

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000

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**Disclaimers:**

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

**B. The Test Results of Chemical Method:**

Test method:

Hexavalent Chromium Content (For metal material):

With reference to IEC 62321 Ed 1.0 Annex B, by boiling-water-extraction and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:

With reference to IEC 62321 Ed 1.0 Annex A, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

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1) The test results of Cr (VI)

Item	MDL	Results					Limit
		2	3	10	14	45	
Hexavalent Chromium (Cr (VI))	**	Negative	Negative	Negative	Negative	Negative	#
<b>Conclusion</b>	<b>/</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>/</b>

Note:

- Negative = Absence of Cr(VI) on the tested areas
- MDL = Method Detection Limit
- mg/kg = ppm
- \*\* = Spot-test:  
 Negative = Absence of Cr(VI) coating/ surface layer, Positive = Presence of Cr(VI) coating/ surface layer;  
 (The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed)  
 Boiling-water-extraction:  
 Negative = Absence of Cr(VI) coating/ surface layer, Positive = Presence of Cr(VI) coating/ surface layer;  
 The detected concentration in boiling- water-extraction solution is equal or greater than 0.02 mg/kg with 50cm<sup>2</sup> sample surface areas.
- # =  
 Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as conflict with RoHS requirement.  
 Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as no conflict with RoHS requirement.

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2) The test results of PBBs & PBDEs

Item	Unit	MDL	Results					Limit
			30	48	51	67	70	
<b>Polybrominated Biphenyls (PBBs)</b>								
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
<b>Polybrominated Diphenylethers (PBDEs)(Mon-Deca)</b>								
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	13	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	264	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	277	N.D.	1000 mg/kg
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

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Item	Unit	MDL	Results					Limit
			75	97	109	113	137	
<b>Polybrominated Biphenyls (PBBs)</b>								
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
<b>Polybrominated Diphenylethers (PBDEs)(Mon-Deca)</b>								
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	7	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	6	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	7	6	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	114	85	N.D.	N.D.	
Total content	mg/kg	/	N.D.	134	91	N.D.	N.D.	1000 mg/kg
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

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Item	Unit	MDL	Results				Limit
			150	225	227	248	
<b>Polybrominated Biphenyls (PBBs)</b>							
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
<b>Polybrominated Diphenylethers (PBDEs)(Mon-Deca)</b>							
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	9	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	173	N.D.	N.D.	N.D.	
Total content	mg/kg	/	182	N.D.	N.D.	N.D.	1000 mg/kg
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Note:

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit
- Photo appendix is included.

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# TEST REPORT

REPORT No.: R2SC130530F0221E -M1

Date: June 25, 2013

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## Appendix

Photograph of Sample



BACL authenticate the photo on original report only

\*\*\* End of Report \*\*\*

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