TEST REPORT

REPORT No.: R2DG1703144057E Date: August 1, 2017

SHENZHEN IP-COM NETWORKS CO., LTD.
Unit A, First Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China

Report on the submitted samples said to be:

Sample Name	:	Wireless Access Point
Style/ Item No.	:	AP375
Sample Receiving Date	:	July 7, 2017
Testing Period	:	From July 7, 2017 to August 1, 2017
Results	:	Please refer to next page(s).

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Summary of Test Results:

	TEST REQUEST	CONCLUSION
A	RoHS Directive 2011/65/EU and its amendment directives –XRF screening test and Wet Chemical Testing (Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs content)	**Pass**

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Signed for and on behalf of BACL

Checked by: _____
Jane Xu
Technical Supervisor

Approved by: _____
William Wei
Laboratory Manager

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Results:

A、RoHS Directive 2011/65/EU and its amendment directives

XRF screening test

Test method: With reference to IEC62321-3-1:2013 screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
1*	Silvery metal(screw, Accessories)	BL	BL	BL	IN	---
2	Dull silvery metal(screw, Accessories)	BL	BL	BL	BL	---
3	Green plastic(screw bolt, Accessories)	BL	BL	BL	BL	BL
4	Transparent plastic(cushion, Accessories)	BL	BL	BL	BL	BL
5	Silvery magnet(magnet, Accessories)	BL	BL	BL	BL	BL
6	Black soft plastic(shell, plug, Power cable)	BL	BL	BL	BL	BL
7	Silvery plated golden metal(connector, plug, Power cable)	BL	BL	BL	BL	---
8	Black soft plastic(cable jacket, Power cable)	BL	BL	BL	BL	BL
9	Blue soft plastic(wire jacket, Power cable)	BL	BL	BL	BL	BL
10	Yellow /green soft plastic(wire jacket, Power cable)	BL	BL	BL	BL	BL
11	Coffee soft plastic(wire jacket, Power cable)	BL	BL	BL	BL	BL
12	Silvery plated golden metal(pin, plug, Power cable)	BL	BL	BL	BL	---
13*	Black plastic(pin holder, plug, Power cable)	BL	BL	BL	BL	IN
14	Golden metal(pin, socket, Power cable)	BL	BL	BL	BL	---
15	Coppery metal(wire, Power cable)	BL	BL	BL	BL	---
16*	White plastic(pin holder, socket, Power cable)	BL	BL	BL	BL	IN
17	Black soft plastic(shell, socket, Power cable)	BL	BL	BL	BL	BL
18	Black soft plastic(shell, socket, Switching Adapter)	BL	BL	BL	BL	BL
19	Black soft plastic with white printing(wire jacket, Switching Adapter)	BL	BL	BL	BL	BL
20	Silvery metal(connector, socket, Switching Adapter)	BL	BL	BL	BL	---
21*	Black soft plastic(pin holder, socket, Switching Adapter)	BL	BL	BL	BL	IN

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
22	Silvery solder(connector, socket, Switching Adapter)	BL	BL	BL	BL	---
23	Coppery metal(wire, Switching Adapter)	BL	BL	BL	BL	---
24	Silvery plated golden metal(pin, socket, Switching Adapter)	BL	BL	BL	BL	---
25	Green paper with black printing(label, shell, Switching Adapter)	BL	BL	BL	BL	BL
26	Black plastic(shell, Switching Adapter)	BL	BL	BL	BL	BL
27	Black plastic with white printing(label, shell, Switching Adapter)	BL	BL	BL	BL	BL
28	Black plastic(SR, Switching Adapter)	BL	BL	BL	BL	BL
29	Grey silica gel(cushion, PCB, Switching Adapter)	BL	BL	BL	BL	BL
30	Yellow adhesive plastic(tape, radiator, PCB)	BL	BL	BL	BL	BL
31	Silvery metal with black coating(screw,triode”D4”,PCB)	BL	BL	BL	BL	---
32	Silvery metal(nut,triode”D4”,PCB)	BL	BL	BL	BL	---
33	Black body(triode”D4”,PCB)	BL	BL	BL	BL	BL
34	Silvery metal(radiator, triode”D4”,PCB)	BL	BL	BL	BL	---
35	Silvery metal(radiator fixer, triode”D4”,PCB)	BL	BL	BL	BL	---
36	White glue(PCB, Switching Adapter)	BL	BL	BL	BL	BL
37	Coffee plastic with white printing(sleeve,capacitor”EC1” ,PCB)	BL	BL	BL	BL	BL
38	Silvery metal(shell, capacitor”EC1”)	BL	BL	BL	BL	---
39	Black rubber(base, capacitor”EC1”)	BL	BL	BL	BL	BL
40	Silvery metal(foil, capacitor”EC1”)	BL	BL	BL	BL	---
41	Dull silvery metal(foil, capacitor”EC1”)	BL	BL	BL	BL	---
42	Silvery metal(connector, capacitor”EC1”)	BL	BL	BL	BL	---
43	Silvery metal(pin, capacitor”EC1”)	BL	BL	BL	BL	---
44	Brown paper with liquid(film, capacitor”EC1”)	BL	BL	BL	BL	BL
45	Transparent adhesive plastic(tape, capacitor”EC1”)	BL	BL	BL	BL	BL
46	Black plastic with white printing(sleeve,capacitor”EC3” ,PCB)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
47	Green plastic with white printing(sleeve,capacitor”EC5” ,PCB)	BL	BL	BL	BL	BL
48	Blue body with black printing(capacitor”C6”, PCB)	BL	BL	BL	BL	BL
49	Black body(EC”RT1”,PCB)	BL	BL	BL	BL	BL
50	Black plastic with white printing(sleeve,fuse”F1”, PCB)	BL	BL	BL	BL	BL
51	Silvery metal(connector, fuse”F1”, PCB)	BL	BL	BL	BL	---
52	White ceramic(shell, fuse”F1”, PCB)	BL	BL	BL	BL	BL
53*	Black body(EC”’HS1’, PCB)	BL	BL	BL	BL	IN
54*	Yellow body with black printing(EC”CX1” , PCB)	BL	BL	BL	BL	IN
55	Black body(diode”D1” , PCB)	BL	BL	BL	BL	BL
56*	Black body(IC”U1” , PCB)	BL	BL	BL	BL	IN
57	Black magnet with green coating(core,inductor”CON1” , PCB)	BL	BL	BL	BL	BL
58	Coppery metal(coil, inductor”CON1” , PCB)	BL	BL	BL	BL	---
59	Black glue(inductor”CON1” , PCB)	BL	BL	BL	BL	BL
60	Yellow plastic(sheet, inductor”CON1” , PCB)	BL	BL	BL	BL	BL
61	Coppery metal with red coating(coil, inductor”LF1” , PCB)	BL	BL	BL	BL	---
62	Coppery metal(coil, inductor”LF1” , PCB)	BL	BL	BL	BL	---
63	Black magnet(core,transformer”T1”, PCB)	BL	BL	BL	BL	BL
64	Coppery metal(sticker, transformer”T1”, PCB)	BL	BL	BL	BL	---
65	Silvery solder(sticker, transformer”T1”, PCB)	BL	BL	BL	BL	---
66	Coppery metal(coil, transformer”T1”, PCB)	BL	BL	BL	BL	---
67	Black plastic(bobbin, transformer”T1”, PCB)	BL	BL	BL	BL	BL
68	Yellow plastic(wire jacket, transformer”T1”, PCB)	BL	BL	BL	BL	BL
69	Coppery metal(wire, transformer”T1”, PCB)	BL	BL	BL	BL	---
70	Silvery metal(connector, transformer”T1”, PCB)	BL	BL	BL	BL	---
71*	Black plastic(pin holder, power socket, PCB)	BL	BL	BL	BL	IN

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
72	Silvery plated golden metal(pin, power socket, PCB)	BL	BL	BL	BL	---
73	Brown body(capacitor”C3”, PCB)	BL	BL	BL	BL	BL
74	Black body(resistor”R21”, PCB)	BL	BL	BL	BL	BL
75	Black body(triode”Q1”, PCB)	BL	BL	BL	BL	BL
76	Black body(IC”U2”, PCB)	BL	BL	BL	BL	BL
77*[1]	Red body(diode ”ZD1”, PCB, Switching Adapter)	OL	BL	BL	BL	BL
78	Silvery solder(PCB, Switching Adapter)	BL	BL	BL	BL	---
79*	Green/yellow PCB(Switching Adapter)	BL	BL	BL	BL	IN
80	Grey paper with black printing(label, Shunt)	BL	BL	BL	BL	BL
81	Silvery metal(screw, Shunt)	BL	BL	BL	BL	---
82	White plastic(shell, Shunt)	BL	BL	BL	BL	BL
83	Green transparent body(diode”D1”,PCB”10012939 V1.0” , Shunt)	BL	BL	BL	BL	BL
84	Silvery metal(pin, diode”D1”, PCB”10012939 V1.0”)	BL	BL	BL	BL	---
85	Silvery metal(connector,fuse”F1”, PCB”10012939 V1.0”)	BL	BL	BL	BL	---
86	White ceramic(shell, fuse”F1”, PCB”10012939 V1.0”)	BL	BL	BL	BL	BL
87*	Black plastic(pin holder, power socket, PCB”10012939 V1.0”)	BL	BL	BL	BL	IN
88	Silvery metal(connector, power socket, PCB”10012939 V1.0”)	BL	BL	BL	BL	---
89	Silvery plated golden metal(pin, power socket, PCB”10012939 V1.0”)	BL	BL	BL	BL	---
90*	Black plastic(pin holder, Lan socket, PCB”10012939 V1.0”)	BL	BL	BL	BL	IN
91	Silvery metal(shell, Lan socket, PCB”10012939 V1.0”)	BL	BL	BL	BL	---
92	Black body with white printing(transformer”T1”, PCB”10012939 V1.0”)	BL	BL	BL	BL	BL
93	Silvery metal(pin, Lan socket, PCB”10012939 V1.0”)	BL	BL	BL	BL	---
94	Black body(EC”PD1”, PCB”10012939 V1.0”)	BL	BL	BL	BL	BL
95	Black body(resistor”R1”, PCB”10012939 V1.0”)	BL	BL	BL	BL	BL
96	Silvery solder(PCB”10012939 V1.0”)	BL	BL	BL	BL	---

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		Pb	Cd	Hg	Cr	Br
97*	Green PCB(PCB"10012939 V1.0")	BL	BL	BL	BL	IN
98	Grey soft plastic(jacket, Ethernet cable)	BL	BL	BL	BL	BL
99	Grey plastic(SR, Ethernet cable)	BL	BL	BL	BL	BL
100	Silvery plated golden metal(pin, port, Ethernet cable)	BL	BL	BL	BL	---
101	White soft plastic(wire jacket, Ethernet cable)	BL	BL	BL	BL	BL
102	White /orange soft plastic(wire jacket, Ethernet cable)	BL	BL	BL	BL	BL
103	Blue soft plastic(wire jacket, Ethernet cable)	BL	BL	BL	BL	BL
104	Green soft plastic(wire jacket, Ethernet cable)	BL	BL	BL	BL	BL
105	Orange soft plastic(wire jacket, Ethernet cable)	BL	BL	BL	BL	BL
106	White /blue soft plastic(wire jacket, Ethernet cable)	BL	BL	BL	BL	BL
107	White /coffee soft plastic(wire jacket, Ethernet cable)	BL	BL	BL	BL	BL
108	Coffee soft plastic(wire jacket, Ethernet cable)	BL	BL	BL	BL	BL
109	Transparent plastic(shell, port, Ethernet cable)	BL	BL	BL	BL	BL
110	White paper with black printing(label, bottom shell, Wireless access point)	BL	BL	BL	BL	BL
111	Green paper with black printing(sticker, bottom shell, Wireless access point)	BL	BL	BL	BL	BL
112	Transparent plastic(lens, LED, Wireless access point)	BL	BL	BL	BL	BL
113	Grey plastic(support frame, Wireless access point)	BL	BL	BL	BL	BL
114	Grey plastic(bottom shell, Wireless access point)	BL	BL	BL	BL	BL
115	Silvery metal(screw, PCB"10028492 V1.2",Wireless access point)	BL	BL	BL	BL	---
116	Silvery metal(gasket, PCB"10028492 V1.2",Wireless access point)	BL	BL	BL	BL	---
117	Silvery metal(ring, PCB"10028492 V1.2",Wireless access point)	BL	BL	BL	BL	---
118	Pink silica gel(cushion, PCB"10028492 V1.2",Wireless access point)	BL	BL	BL	BL	BL
119	Milky plastic(screw, PCB"10028492 V1.2")	BL	BL	BL	BL	BL
120	Lt blue silica gel(cushion, PCB"10028492 V1.2",Wireless access point)	BL	BL	BL	BL	BL
121	White plastic with red coating(shell, Wireless access point)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
122	White plastic with grey printing(shell, Wireless access point)	BL	BL	BL	BL	BL
123	Black textile(sticker,PCB”10028593 V1.2”, Wireless access point)	BL	BL	BL	BL	BL
124	Silvery metal(nut, base, PCB”10028492V1.2” , Wireless access point)	BL	BL	BL	BL	---
125	Silvery metal(rivet, base, PCB”10028492V1.2”)	BL	BL	BL	BL	---
126	Silvery metal with black coating(base, PCB”10028492V1.2”)	BL	BL	BL	BL	---
127	Silvery metal(shield, PCB”10028492V1.2”)	BL	BL	BL	BL	---
128	Brown body(capacitor”C181”, PCB”10028493 V1.1”)	BL	BL	BL	BL	BL
129	Black body(EC”FB1”, PCB”10028493 V1.1”)	BL	BL	BL	BL	BL
130	Silvery body(crystal”Y1”, PCB”10028493 V1.1”)	BL	BL	BL	BL	BL
131	Black body(IC”U10”, PCB”10028493 V1.1”)	BL	BL	BL	BL	BL
132	White body(IC”U9”, PCB”10028493 V1.1”)	BL	BL	BL	BL	BL
133	Black body(resistor”R28”, PCB”10028493 V1.1”)	BL	BL	BL	BL	BL
134	Black body(EC”L3”, PCB”10028493 V1.1”)	BL	BL	BL	BL	BL
135	Silvery solder(PCB”10028493 V1.1”)	BL	BL	BL	BL	---
136	Navy PCB(PCB”10028493 V1.1”)	BL	BL	BL	BL	BL
137	Golden metal(tube,socket”CON1”, PCB”10028493 V1.1”)	BL	BL	BL	BL	---
138	Golden metal(pin,socket”CON1”, PCB”10028493 V1.1”)	BL	BL	BL	BL	---
139	White plastic(pin holder,socket”CON1”, PCB”10028493 V1.1”)	BL	BL	BL	BL	BL
140	Silvery solder(PCB”10028596V1.2” , Wireless access point)	BL	BL	BL	BL	---
141*	Navy PCB(PCB”10028596V1.2” , Wireless access point)	BL	BL	BL	BL	IN
142	Golden metal(shell, plug, antenna cable, Wireless access point)	BL	BL	BL	BL	---
143	Black plastic(pin holder, plug, antenna cable)	BL	BL	BL	BL	BL
144	Golden metal(pin, plug, antenna cable)	BL	BL	BL	BL	---
145	Black soft plastic(jacket, antenna cable)	BL	BL	BL	BL	BL
146	Grey soft plastic(jacket, antenna cable)	BL	BL	BL	BL	BL

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		Pb	Cd	Hg	Cr	Br
147	Translucent soft plastic(interlayer, antenna cable)	BL	BL	BL	BL	BL
148	Silvery metal(wire, antenna cable)	BL	BL	BL	BL	---
149	Silvery metal(connector, PCB”10028593 V1.2”)	BL	BL	BL	BL	---
150	Black soft sponge(cushion, PCB”10028593 V1.2”)	BL	BL	BL	BL	BL
151	Silvery solder(PCB”10028593 V1.2”)	BL	BL	BL	BL	---
152*	Navy PCB(PCB”10028593 V1.2”)	BL	BL	BL	BL	IN
153*[2]	Golden metal(nut, PCB’’10028492 V1.2’’)	OL	BL	BL	BL	---
154	Silvery metal(radiator, PCB’’10028492 V1.2’’)	BL	BL	BL	BL	---
155*[1]	Red body with silvery metal edge(diode”D21”, PCB’’10028492 V1.2’’)	OL	BL	BL	BL	BL
156	Coffee plastic with white printing(sleeve,capacitor”C156”, PCB’’10028492 V1.2’’)	BL	BL	BL	BL	BL
157	Silvery metal(shell, capacitor”C156”)	BL	BL	BL	BL	---
158	Black rubber(base, capacitor”C156”)	BL	BL	BL	BL	BL
159	Silvery metal(pin, capacitor”C156”)	BL	BL	BL	BL	---
160	Silvery metal(connector, capacitor”C156”)	BL	BL	BL	BL	---
161	Silvery metal(foil, capacitor”C156”)	BL	BL	BL	BL	---
162	Dull silvery metal(foil, capacitor”C156”)	BL	BL	BL	BL	---
163	Transparent adhesive plastic(tape, capacitor”C156”)	BL	BL	BL	BL	BL
164	Brown paper with liquid(tape, capacitor”C156”)	BL	BL	BL	BL	BL
165	Black plastic(pin holder,socket”U19”, PCB’’10028492 V1.2’’)	BL	BL	BL	BL	BL
166	Silvery metal(pin, socket”U19”, PCB’’10028492 V1.2’’)	BL	BL	BL	BL	---
167	Black plastic(button,switch”S1”, PCB’’10028492 V1.2’’)	BL	BL	BL	BL	BL
168	Silvery metal(button fixer, switch”S1”, PCB’’10028492 V1.2’’)	BL	BL	BL	BL	---
169	Black plastic(base, switch”S1”, PCB’’10028492 V1.2’’)	BL	BL	BL	BL	BL
170	Golden metal(foil, switch”S1”, PCB’’10028492 V1.2’’)	BL	BL	BL	BL	---
171	Silvery metal(shell,socket”U17”, PCB’’10028492 V1.2’’)	BL	BL	BL	BL	---

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		Pb	Cd	Hg	Cr	Br
172*	Black plastic(pin holder, socket"U17", PCB''10028492 V1.2'')	BL	BL	BL	BL	IN
173	Silvery metal(pin, socket"U17", PCB''10028492 V1.2'')	BL	BL	BL	BL	---
174	Silvery metal(shell, transformer"T3", PCB''10028492 V1.2'')	BL	BL	BL	BL	---
175	Black magnet(core, transformer"T3", PCB''10028492 V1.2'')	BL	BL	BL	BL	BL
176	Yellow adhesive plastic(tape, transformer"T3", PCB''10028492 V1.2'')	BL	BL	BL	BL	BL
177	Coppery metal(coil, transformer"T3", PCB''10028492 V1.2'')	BL	BL	BL	BL	---
178	Coppery metal with red coating(coil,transformer"T3", PCB''10028492 V1.2'')	BL	BL	BL	BL	---
179	Black plastic(bobbin, transformer"T3", PCB''10028492 V1.2'')	BL	BL	BL	BL	BL
180	Grey paper with black printing(label, PCB''10028492 V1.2'')	BL	BL	BL	BL	BL
181	Black body with white printing(transformer"T1", PCB''10028492 V1.2'')	BL	BL	BL	BL	BL
182	Grey magnet(core,inductor"L6", PCB''10028492 V1.2'')	BL	BL	BL	BL	BL
183	Coppery metal(coil, inductor"L6", PCB''10028492 V1.2'')	BL	BL	BL	BL	---
184	Brown body(capacitor"C244", PCB''10028492 V1.2'')	BL	BL	BL	BL	BL
185	Black body(triode"U3", PCB''10028492 V1.2'')	BL	BL	BL	BL	BL
186	Black body(resistor"R262", PCB''10028492 V1.2'')	BL	BL	BL	BL	BL
187	Black body(EC"RV3", PCB''10028492 V1.2'')	BL	BL	BL	BL	BL
188	Transparent body(diode"D18", PCB''10028492 V1.2'')	BL	BL	BL	BL	BL
189	Silvery body(crystal"Y1", PCB''10028492 V1.2'')	BL	BL	BL	BL	BL
190	Black body(diode"D18", PCB''10028492 V1.2'')	BL	BL	BL	BL	BL
191	Black body(triode"D18", PCB''10028492 V1.2'')	BL	BL	BL	BL	BL
192	Black magnet(core,inductor"L11", PCB''10028492 V1.2'')	BL	BL	BL	BL	BL
193	Silvery solder(PCB''10028492 V1.2'')	BL	BL	BL	BL	---
194*	Navy PCB(PCB''10028492 V1.2'')	BL	BL	BL	BL	IN
195	Silvery metal(connector,switch"S1", PCB''10028492 V1.2'')	BL	BL	BL	BL	---

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Remark:
(1)

-- = Not Conducted

* = 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 IEC62321-3-1:2013.

Element	Unit	Polymers	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ< X <130+3σ≤OL	BL≤70-3σ< X <130+3σ≤OL	LOD < 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

BL = Below Limit
OL = Over Limit
IN = Inconclusive
LOD = Limit of Detection

*1 = As claimed by the material declaration submitted by the client, the materials of the sample No.77、155 are glass. And according to RoHS directive 2011/65/EU and its amendments, Lead is exempted in glass of cathode ray tubes, electronic components and fluorescent tubes.

*2 = As claimed by the material declaration submitted by the client, the material of the sample No. 153 is copper alloy. And according to RoHS directive2011/65/EU and its amendments, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.

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(2) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

(3) The maximum permissible limit is quoted from RoHS directive 2011/65/EU:

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
Polybrominate ddiphenylethers (PBDEs)	1000

(4) As requested by applicant, only components shown in this report were screened by XRF spectroscopy for 2011/65/EU and its amendment directives, other components were not screened included in this report.

(5) Photo appendix is included.

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.

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Wet Chemical Testing:

Test method:

Lead & Content:
With reference to IEC62321-5:2013, by acid digestion and analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES) or Atomic Absorption Spectrometry (AAS).

Hexavalent Chromium Content (For metal material):
With reference to IEC 62321-7-1:2015, by boiling-water-extraction and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:
With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

1) The test results of Pb

Item	Unit	MDL	Results
			153
Lead (Pb) Content	mg/kg	10	29340

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2) The test results of Cr (Ⅵ)

Item	Unit	MDL	Results	Limit
			1	
Hexavalent Chromium (Cr(Ⅵ))	μg/cm^2	0.10	N.D.	**
Conclusion	**/**	**/**	**Pass**	**/**

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- ** =

  a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 μ g/cm^2. The sample coating is considered to contain CrVI

  b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 μ g/cm^2). The coating is considered a non-CrVI based coating

  c. The result between 0.10 μ g/cm2 and 0.13 μ g/cm^2 is considered to be inconclusive -unavoidable coating variations may influence the determination

  For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

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TEST REPORT

3) The test results of PBBs & PBDEs

Item	Unit	MDL	Results					Limit
			13	16	21	53	54	
Polybrominated Biphenyls								
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
Polybrominated Diphenylethers								
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.	N.D.	N.D.	
Decabromodiphenyl ether	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
Conclusion	**/**	**/**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**/**

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TEST REPORT

Item	Unit	MDL	Results					Limit
			56	71	79	87	90	
Polybrominated Biphenyls								
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
Polybrominated Diphenylethers								
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.	N.D.	N.D.	
Decabromodiphenyl ether	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
Conclusion	**/**	**/**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**/**

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TEST REPORT

Item	Unit	MDL	Results					Limit
			97	141	152	172	194	
Polybrominated Biphenyls								
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
Polybrominated Diphenylethers								
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.	N.D.	N.D.	
Decabromodiphenyl ether	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
Conclusion	**/**	**/**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**/**

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Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- The results less than MDL are not taken into account while calculating the sum contents.
- mg/kg = ppm
- Photo is included.

Photograph of Sample

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BACL authenticate the photo on original report only

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