



TEST REPORT

Report No.: STRT18076035R

Date: 2018-08-03

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Applicant : Shenzhen Olight E-Commerce Technology Co., Ltd.

Applicant Address : 5th Floor, Building A2, Fuhai Information Harbor, Fuhai Subdistrict, Bao'an District, Shenzhen, China

The following sample was submitted by the client as:

Manufacturer : Shenzhen Olight E-Commerce Technology Co., Ltd.

Manufacturer Address : 5th Floor, Building A2, Fuhai Information Harbor, Fuhai Subdistrict, Bao'an District, Shenzhen, China

Sample Description : LED FlashLight

Model No. : X9R Marauder(BPX9R), X7R Marauder(Olight 3000mAh 18650), S1 MINI(ORBC-163C06), RX3(Olight 4500mAh 26650), S30RIII Baton (Olight 2600mAh 18650),SRMINI INTIMIDATOR II (Olight 3400mAh 18650),M22 Warrior(Olight 1600mAh CR123A),RM22(Remote switch)

Brand Name : Olight

Sample Receiving Date : Jul. 31, 2018

Test Period : Jul. 31, 2018 to Aug. 03, 2018

Test Requested:

As requested by the applicant, test(s) was/were performed as below:

Test Summary		Conclusion
1	European Directive 2011/65/EU and amendment (EU) 2015/863 on the restriction of the use of certain hazardous substances in electrical and electronic equipment	PASS

Test Results: Please refer to following page(s).



Tested by:

Alen Zhang
Alen Zhang

Reviewed by:

Eric lu
Eric lu

Approved by:

Jandyso
Jandyso

Declaration:

- (1) The report shall not be reproduced partly without the written approval of the laboratory, except in full produced.
- (2) All the results shown in the report apply to the tested sample, any erasion on the report is invalid
- (3) All tested sample will be kept for one month, if there is any doubt about the test result, please inform within this period

Shenzhen SEM.Test Technology Co., Ltd.

1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C. (518101)



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RoHS hazardous substances test

Test method:

IEC 62321-3-1:2013, XRF screening

IEC 62321-4-2013 for Hg, analyzed by ICP-OES

IEC 62321-5-2013 for Cd and Pb, analyzed by ICP-OES

IEC 62321-7-2:2017 method 7.1 and/or IEC 62321-7-1:2015 for Cr⁶⁺, analyzed by UV-VIS

IEC 62321-6-2015 for PBBs and PBDEs, analyzed by GC-MS

IEC 62321-8:2017 for phthalates, analyzed by GC-MS

1. XRF results:

No.	Name of the sample	Part name	Sample Description	Results				
				Pb	Cd	Hg	Cr	Br
1	BOX (X9R Marauder)	Shell	Black plastic shell	BL	BL	BL	BL	BL
2			Silvery metal pole axle	BL	BL	BL	BL	NA
3			Grey soft rubber handle	BL	BL	BL	BL	BL
4			Black foam	BL	BL	BL	BL	BL
5	BOX(BPX9R)	Box	White paper w/multicolor printing	BL	BL	BL	BL	BL
6	Battery (BPX9R)	Shell	Black plastic shell	BL	BL	BL	BL	BL
7			Black plastic (pedestal)	BL	BL	BL	BL	BL
8			Black textile with adhesive tape	BL	BL	BL	BL	BL
9			Black metal(screw)	BL	BL	BL	IN	NA
10		Battery body	Black plastic	BL	BL	BL	BL	BL
11			Black rubber	BL	BL	BL	BL	BL
12			Coppery metal (positive)	BL	BL	BL	BL	NA
13			Coppery metal sheet(negative)	BL	BL	BL	BL	NA
14			Black plastic (negative)	BL	BL	BL	BL	BL
15			Black PCB	BL	BL	BL	BL	IN
16			Black plastic(cable)	BL	BL	BL	BL	BL
17			Red plastic(cable)	BL	BL	BL	BL	BL
18			Silvery metal coil	BL	BL	BL	BL	NA
19			Solder	BL	BL	BL	BL	NA
20			Black sponge (support)	BL	BL	BL	BL	BL



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21	Adapter(X9R Marauder &HXY- 168V200A)	Shell	Silvery metal pin	BL	BL	BL	IN	NA
22			Black plastic shell	BL	BL	BL	BL	IN
23			White plastic film w/black printing(label)	BL	BL	BL	BL	BL
24			Black plastic cable	BL	BL	BL	BL	BL
25			Red plastic wire	BL	BL	BL	BL	BL
26			Black plastic wire	BL	BL	BL	BL	BL
27			Silvery metal core	BL	BL	BL	BL	NA
28			Black plastic plug(big)	BL	BL	BL	BL	IN
29			Black plastic plug	BL	BL	BL	BL	BL
30			Silvery metal plug	BL	BL	BL	BL	NA
31			Black plastic(socket)	BL	BL	BL	BL	BL
32			Silvery pin (socket)	BL	BL	BL	IN	NA
33		PCB	Blue body (ceramic capacitor)	BL	BL	BL	BL	BL
34			Slivery metal shell (ceramic capacitor)	BL	BL	BL	BL	NA
35			Body(diode)	BL	BL	BL	BL	BL
36			Slivery metal shell (diode)	BL	BL	BL	BL	NA
37			Black plastic w/yellow printing (capacitor)	BL	BL	BL	BL	BL
38			Slivery metal shell (capacitor)	BL	BL	BL	BL	NA
39			Slivery metal pin (capacitor)	BL	BL	BL	BL	NA
40			Body(LED)	BL	BL	BL	BL	BL
41			Slivery metal(LED)	BL	BL	BL	BL	NA
42			Silvery fuse	BL	BL	BL	BL	NA
43			Copperry metal coil (Inductor)	BL	BL	BL	BL	NA
44			Green ceramic core (Inductor)	BL	BL	BL	BL	BL
45			Transparent plastic adhesive tape (Transformer)	BL	BL	BL	BL	BL
46			Yellow plastic adhesive tape (Transformer)	BL	BL	BL	BL	BL
47			Black magnet (Transformer)	BL	BL	BL	BL	NA



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48	Adapter(X9R Marauder &HXY-168V200A)	PCB	Black plastic frame (Transformer)	BL	BL	BL	BL	BL
49			Copper metal coil (Transformer)	BL	BL	BL	BL	NA
50			Yellow plastic sleeves (Transformer)	BL	BL	BL	BL	BL
51			Silvery metal pin (Transformer)	BL	BL	BL	BL	NA
52			Black body(IC)	BL	BL	BL	BL	BL
53			Silvery metal pin(IC)	BL	BL	BL	BL	NA
54			Silvery metal plate	BL	BL	BL	BL	NA
55			Black plastic plate	BL	BL	BL	BL	BL
56			Silvery metal screw	BL	BL	BL	BL	NA
57			White glue	BL	BL	BL	BL	BL
58			Red plastic wire	BL	BL	BL	BL	BL
59			Silvery metal core	BL	BL	BL	BL	NA
60			Black plastic(square)	BL	BL	BL	BL	BL
61			Solder	BL	BL	BL	BL	NA
62			Brown SMD capacitor	BL	BL	BL	BL	BL
63			Black SMD resistor w/ white printing	BL	BL	BL	BL	BL
64			Black diode w/ white printing	BL	BL	BL	BL	BL
65			Yellow plastic shell (Safe capacitor)	BL	BL	BL	BL	BL
66			Silvery metal pin (Safe capacitor)	BL	BL	BL	BL	NA
67			Brown plastic shell (F1)	BL	BL	BL	BL	BL
68			Silvery metal pin (F1)	BL	BL	BL	BL	NA
69			Green PCB w/yellow body	BL	BL	BL	BL	IN
70	Seal washer (X9R Marauder)	Head	Black soft rubber ring	BL	BL	BL	BL	BL
71	Charge(X9R Marauder)	Socket	Silvery metal pin	BL	BL	BL	BL	NA
72			Black plastic tube	BL	BL	BL	BL	BL
73			Silvery metal tube	BL	BL	BL	BL	NA
74			Black plastic plug	BL	BL	BL	BL	BL
75			Black plastic cable	BL	BL	BL	BL	BL
76			White plastic wire	BL	BL	BL	BL	BL



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77	Charge(X9R Marauder)	Socket	Silvery metal core	BL	BL	BL	BL	NA
78			Black plastic nut (middle)	BL	BL	BL	BL	IN
79		Body	Black plastic shell	BL	BL	BL	BL	BL
80			Transparent soft piece w/grey printing & adhesive	BL	BL	BL	BL	BL
81			Silvery metal ring	BL	BL	BL	BL	NA
82			Silvery metal contactor	BL	BL	BL	BL	NA
83			Silvery metal plug (fuse)	BL	BL	BL	BL	NA
84			Silvery metal thread (fuse)	BL	BL	BL	BL	NA
85			Transparent glass	BL	BL	BL	BL	BL
86		PCB	Copper color metal spring	BL	BL	BL	BL	NA
87			Silvery metal plate	BL	BL	BL	BL	NA
88			Black plastic wire	BL	BL	BL	BL	BL
89			Red plastic wire	BL	BL	BL	BL	BL
90			Silvery metal core	BL	BL	BL	BL	NA
91			Black plastic w/grey printing(capacitor)	BL	BL	BL	BL	BL
92			Silvery metal shell (capacitor)	BL	BL	BL	BL	NA
93			Black rubber cover (capacitor)	BL	BL	BL	BL	BL
94			Silvery metal pin (capacitor)	BL	BL	BL	BL	NA
95			Grey soft material	BL	BL	BL	BL	BL
96			Copper colored metal wire(Loop inductance)	BL	BL	BL	BL	NA
97			Red surfaced metal wire(Loop inductance)	BL	BL	BL	BL	NA
98			Green coating on core(Loop inductance)	BL	BL	BL	BL	BL
99			Dark grey core	BL	BL	BL	BL	BL
100			Grey solid material	BL	BL	BL	BL	BL
101			Silvery metal pin (IC)	BL	BL	BL	BL	NA
102			Black plastic body(IC)	BL	BL	BL	BL	BL
103			SMD diode	BL	BL	BL	BL	BL



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104	Charge(X9R Marauder)	PCB	SMD	BL	BL	BL	BL	BL
105			Solder	BL	BL	BL	BL	NA
106			Green PCB body	BL	BL	BL	BL	IN
107			Silvery metal pin (LED)	BL	BL	BL	BL	NA
108			Red body(LED)	BL	BL	BL	BL	BL
109	Band(X9R Marauder)	Band	Black knitting with blue embroidery	BL	BL	BL	BL	BL
110			Silvery metal	BL	BL	BL	BL	NA
111			Silvery metal spring	BL	BL	BL	BL	NA
112			Black string	BL	BL	BL	BL	BL
113	Lamplight(X9R Marauder)	Shell	Black metal shell	BL	BL	BL	BL	NA
114			Black metal (back cover)	BL	BL	BL	BL	NA
115			Blue metal ring(mat)	BL	BL	BL	BL	NA
116			Black rubber(grip)	BL	BL	BL	BL	BL
117			Black rubber (dust cap of DC)	BL	BL	BL	BL	BL
118			Blue metal(pothook)	BL	BL	BL	BL	NA
119		Switch	Black plastic	BL	BL	BL	BL	BL
120			White plastic	BL	BL	BL	BL	BL
121		Light body	Transparent glass	BL	BL	BL	BL	BL
122			Blue metal	BL	BL	BL	BL	NA
123			Black rubber (protective jacket)	BL	BL	BL	BL	BL
124			Silvery metal (reflector)	BL	BL	BL	BL	BL
125			Silvery metal sheet	BL	BL	BL	BL	NA
126			Transparent plastic (LED)	BL	BL	BL	BL	NA
127			Translucent plastic film	BL	BL	BL	BL	BL
128			Yellow plastic(LED)	BL	BL	BL	BL	BL
129			Red plastic(cable)	BL	BL	BL	BL	BL
130			White plastic(cable)	BL	BL	BL	BL	BL
131			Silvery metal coil	BL	BL	BL	BL	NA
132			Solder	BL	BL	BL	BL	NA
133	Lamplight(X9R Marauder)	PCB(pole)	PCB body	BL	BL	BL	BL	IN
134			Copper metal cap(negative)	BL	BL	BL	BL	NA



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135			Black metal sheet	BL	BL	BL	BL	NA
136			Coppery metal ring(positive)	BL	BL	BL	BL	NA
137			Black plastic	BL	BL	BL	BL	BL
138			Black plastic(IC)	BL	BL	BL	BL	BL
139			Silvery metal pin(IC)	BL	BL	BL	BL	NA
140			Black plastic(DC)	BL	BL	BL	BL	BL
141			Silvery metal(DC)	BL	BL	BL	BL	NA
142			Silvery metal shaft (DC)	BL	BL	BL	BL	NA
143			Silvery metal pin(DC)	BL	BL	BL	BL	NA
144			SMD	BL	BL	BL	BL	BL
145			Solder	BL	BL	BL	BL	NA
146		Green PCB (switch)	PCB body	BL	BL	BL	BL	IN
147			White plastic(button of switch)	BL	BL	BL	BL	BL
148			Silvery metal shell(switch)	BL	BL	BL	BL	NA
149			Black plastic	BL	BL	BL	BL	BL
150			Black transparent plastic(lampshade)	BL	BL	BL	BL	BL
151			Transparent plastic (LED)	BL	BL	BL	BL	BL
152			Black plastic(IC)	BL	BL	BL	BL	BL
153			Silvery metal pin(IC)	BL	BL	BL	BL	NA
154			SMD	BL	BL	BL	BL	BL
155			Solder	BL	BL	BL	BL	NA
156	Adapter(X7R Marauder&SOY-0500400EU)	USB cable	White plastic	BL	BL	BL	BL	BL
157			Silvery metal plate	BL	BL	BL	IN	NA
158			White plastic plate	BL	BL	BL	BL	IN
159			Black plastic plug	BL	BL	BL	BL	BL
160			Black plastic wire	BL	BL	BL	BL	BL
161			Silvery metal plate (small)	BL	BL	BL	BL	NA
162			Silvery metal pin(small)	BL	BL	BL	BL	NA
163			Black plastic plate	BL	BL	BL	BL	IN
164			Black plastic plug	BL	BL	BL	BL	BL
165		Shell	Silvery metal pin	IN	BL	BL	BL	NA



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166	Adapter(X7R Marauder&SOY- 0500400EU)	Shell	Black plastic pin	BL	BL	BL	BL	BL
167			Black plastic shell	BL	BL	BL	BL	IN
168		PCB	Slivery metal shell w/red printing (capacitor C10)	BL	BL	BL	BL	NA
169			Slivery metal pin (capacitor C10)	BL	BL	BL	BL	NA
170			Black rubber cover (capacitor C10)	BL	BL	BL	BL	BL
171			White ceramic w/brown printing(fuse)	BL	BL	BL	BL	BL
172			Slivery metal cap(fuse)	BL	BL	BL	BL	NA
173			Slivery metal thread (fuse)	BL	BL	BL	BL	NA
174			Copper metal rivet (fuse)	BL	BL	BL	BL	NA
175			Slivery metal plate	BL	BL	BL	BL	NA
176			Slivery metal screw	BL	BL	BL	BL	NA
177			Slivery metal pin(IC)	BL	BL	BL	BL	NA
178			Black plastic(IC)	BL	BL	BL	BL	BL
179			Slivery metal plate (USB)	BL	BL	BL	BL	NA
180			White plastic plate (USB)	BL	BL	BL	BL	IN
181			Slivery metal pin (USB)	BL	BL	BL	BL	NA
182			PCB body	BL	BL	BL	BL	IN
183	Adapter(SUN- 0500200)	Shell(No.1)	Slivery metal pin	IN	BL	BL	BL	NA
184			Black plastic pin	BL	BL	BL	IN	BL
185			Black plastic shell	BL	BL	BL	BL	IN
186		Shell(No.2)	Slivery metal pin	BL	BL	BL	IN	NA
187			Black plastic shell	BL	BL	BL	BL	IN
188		PCB(No.1)	Red plastic wire	BL	BL	BL	BL	BL
189			Black plastic wire	BL	BL	BL	BL	BL
190			Slivery metal core	BL	BL	BL	BL	NA
191			Slivery metal shell w/red printing (capacitor C6)	BL	BL	BL	BL	NA
192			Slivery metal pin (capacitor C6)	BL	BL	BL	BL	NA



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193	Adapter(SUN-0500200)	PCB(No.1)	Black rubber cover (capacitor C6)	BL	BL	BL	BL	BL
194			Black foam w/adhesive	BL	BL	BL	BL	BL
195			Black body (optocoupler)	BL	BL	BL	BL	BL
196			White body inner (optocoupler)	BL	BL	BL	BL	BL
197			Silvery metal pin (optocoupler)	BL	BL	BL	BL	NA
198			Transparent plastic plate	BL	BL	BL	BL	BL
199			Black rubber(fuse)	BL	BL	BL	BL	BL
200			White ceramic w/brown printing(fuse)	BL	BL	BL	BL	BL
201			Silvery metal cap(fuse)	BL	BL	BL	BL	NA
202			Copper metal rivet (fuse)	BL	BL	BL	BL	NA
203			Green PCB w/yellow body	BL	BL	BL	BL	IN
204		USB cable	Silvery metal plate	BL	BL	BL	IN	NA
205			White plastic plate	BL	BL	BL	BL	IN
206			Silvery metal pin	BL	BL	BL	BL	NA
207			Blue metal plug	BL	BL	BL	BL	NA
208			Black rubber plug	BL	BL	BL	BL	BL
209			Black rubber wire	BL	BL	BL	BL	BL
210			Silvery metal core	BL	BL	BL	BL	NA
211			Cream rubber plastic	BL	BL	BL	BL	BL
212			Blue metal round shell w/white printing	BL	BL	BL	BL	NA
213			Silvery round metal	BL	BL	BL	BL	NA
214			Black round plastic	BL	BL	BL	BL	BL
215			Copper metal piece	BL	BL	BL	BL	NA
216			Copper metal ring	IN	BL	BL	BL	NA
217			Brown SMD capacitor	BL	BL	BL	BL	BL
218			Black SMD resistor w/ white printing	BL	BL	BL	BL	BL
219			Black diode w/ white printing	BL	BL	BL	BL	BL



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220	Adapter(SUN-0500200)	USB cable	Green PCB w/yellow body	BL	BL	BL	BL	IN
221			Solder	BL	BL	BL	BL	NA
222	Adapter(SW-050100)	Shell	Silvery metal pin	IN	BL	BL	BL	NA
223			Black plastic pin	BL	BL	BL	IN	BL
224			Black plastic shell	BL	BL	BL	BL	IN
225			Solder	BL	BL	BL	BL	NA
226			Blue plastic wire	BL	BL	BL	BL	BL
227			Brown plastic wire	BL	BL	BL	BL	BL
228			Silvery metal core	BL	BL	BL	BL	NA
229			Transparent plastic film w/black printing (label)	BL	BL	BL	BL	BL
230			Black foam	BL	BL	BL	BL	BL
231			Silvery metal screw	BL	BL	BL	BL	NA
232		USB cable	Silvery metal housing	BL	BL	BL	IN	NA
233			White plastic housing	BL	BL	BL	BL	IN
234			Silvery metal shell	BL	BL	BL	BL	NA
235			Black plastic plug	BL	BL	BL	BL	IN
236			Black plastic cable	BL	BL	BL	BL	BL
237			Red plastic wire	BL	BL	BL	BL	BL
238			Black plastic wire	BL	BL	BL	BL	BL
239			Copper metal core	BL	BL	BL	BL	NA
240			Black plastic plug (small)	BL	BL	BL	BL	BL
241			Silvery metal housing (small)	BL	BL	BL	BL	NA
242			Silvery metal shell (small)	BL	BL	BL	BL	NA
243			Black plastic housing (small)	BL	BL	BL	BL	IN
244			Black plastic w/black	BL	BL	BL	BL	BL
245		PCB	Red body(led)	BL	BL	BL	BL	BL
246			Silvery metal(LED)	BL	BL	BL	BL	NA
247			White plastic housing	BL	BL	BL	BL	BL
248			Silvery metal housing	BL	BL	BL	BL	NA
249			Silvery metal pin	BL	BL	BL	IN	NA
250			Green PCB w/yellow body	BL	BL	BL	BL	IN



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251	M22 Warrior	Head	Black soft rubber ring	BL	BL	BL	BL	BL
252			Transparent glass	BL	BL	BL	BL	BL
253	RM22 (Remote switch)	Head	Black metal shell	BL	BL	BL	IN	NA
254			Silvery metal tube	BL	BL	BL	BL	NA
255			Copper color metal dot	BL	BL	BL	BL	NA
256			Silvery metal spring	BL	BL	BL	BL	NA
257			Black metal ring	BL	BL	BL	BL	NA
258		Wire	Black rubber plug	BL	BL	BL	BL	BL
259			Black rubber cable	BL	BL	BL	BL	BL
260			Black plastic wire	BL	BL	BL	BL	BL
261			Red plastic wire	BL	BL	BL	BL	BL
262			Silvery metal core	BL	BL	BL	BL	NA
263			Black plastic cable	BL	BL	BL	BL	BL
264		PCB	Green PCB body	BL	BL	BL	BL	IN
265			Solder	BL	BL	BL	BL	NA
266			Black foam	BL	BL	BL	BL	BL
267			Transparent plastic	BL	BL	BL	BL	BL
268			Brown plastic point	BL	BL	BL	BL	BL
269			Silvery metal plate	BL	BL	BL	BL	NA
270			Black plastic plate	BL	BL	BL	BL	BL
271			Silvery metal ring	BL	BL	BL	BL	NA
272			Silvery metal pin	BL	BL	BL	BL	NA
273	Box	Box	White paper w/multicolor printing	BL	BL	BL	BL	BL
274			Transparent plastic box	BL	BL	BL	BL	BL

2. Chemical confirm for XRF results:

Test Item(s)	Result (mg/kg)				Limit (mg/kg)
	165	183	216	222	
Lead (Pb)	14300#	16700#	16600#	9300#	40000
Comment	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	9	21	32	78	156	184	
Hexavalent Chromium (Cr ⁶⁺)	Negative	Negative	Negative	Negative	Negative	Negative	--
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--



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Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	186	204	223	232	249	253	
Hexavalent Chromium (Cr ⁶⁺)	Negative	Negative	Negative	Negative	Negative	Negative	--
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	15	22	28	69	78	106	
Mono-PBB	ND	ND	ND	ND	ND	ND	--
Di-PBB	ND	ND	ND	ND	ND	ND	--
Tri-PBB	ND	ND	ND	ND	ND	ND	--
Tetra-PBB	ND	ND	ND	ND	ND	ND	--
Penta-PBB	ND	ND	ND	ND	ND	ND	--
Hexa-PBB	ND	ND	ND	ND	ND	ND	--
Hepta-PBB	ND	ND	ND	ND	ND	ND	--
Octa-PBB	ND	ND	ND	ND	ND	ND	--
Nona-PBB	ND	ND	ND	ND	ND	ND	--
Deca-PBB	ND	ND	ND	ND	ND	ND	--
Sum of PBBs	ND	ND	ND	ND	ND	ND	1000
Mono-PBDE	ND	ND	ND	ND	ND	ND	--
Di- PBDE	ND	ND	ND	ND	ND	ND	--
Tri- PBDE	ND	ND	ND	ND	ND	ND	--
Tetra- PBDE	ND	ND	ND	ND	ND	ND	--
Penta- PBDE	ND	ND	ND	ND	ND	ND	--
Hexa- PBDE	ND	ND	ND	ND	ND	ND	--
Hepta- PBDE	ND	ND	ND	ND	ND	ND	--
Octa- PBDE	ND	ND	ND	ND	ND	ND	--
Nona- PBDE	ND	ND	ND	ND	ND	ND	--
Deca- PBDE	ND	ND	ND	ND	ND	ND	--
Sum of PBDEs	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	133	146	158	163	167	180	
Mono-PBB	ND	ND	ND	ND	ND	ND	--
Di-PBB	ND	ND	ND	ND	ND	ND	--
Tri-PBB	ND	ND	ND	ND	ND	ND	--



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Tetra-PBB	ND	ND	ND	ND	ND	ND	--
Penta-PBB	ND	ND	ND	ND	ND	ND	--
Hexa-PBB	ND	ND	ND	ND	ND	ND	--
Hepta-PBB	ND	ND	ND	ND	ND	ND	--
Octa-PBB	ND	ND	ND	ND	ND	ND	--
Nona-PBB	ND	ND	ND	ND	ND	ND	--
Deca-PBB	ND	ND	ND	ND	ND	ND	--
Sum of PBBs	ND	ND	ND	ND	ND	ND	1000
Mono-PBDE	ND	ND	ND	ND	ND	ND	--
Di- PBDE	ND	ND	ND	ND	ND	ND	--
Tri- PBDE	ND	ND	ND	ND	ND	ND	--
Tetra- PBDE	ND	ND	ND	ND	ND	ND	--
Penta- PBDE	ND	ND	ND	ND	ND	ND	--
Hexa- PBDE	ND	ND	ND	ND	ND	ND	--
Hepta- PBDE	ND	ND	ND	ND	ND	ND	--
Octa- PBDE	ND	ND	ND	ND	ND	ND	--
Nona- PBDE	ND	ND	ND	ND	ND	ND	--
Deca- PBDE	ND	ND	ND	ND	ND	ND	--
Sum of PBDEs	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	182	185	187	203	205	220	
Mono-PBB	ND	ND	ND	ND	ND	ND	--
Di-PBB	ND	ND	ND	ND	ND	ND	--
Tri-PBB	ND	ND	ND	ND	ND	ND	--
Tetra-PBB	ND	ND	ND	ND	ND	ND	--
Penta-PBB	ND	ND	ND	ND	ND	ND	--
Hexa-PBB	ND	ND	ND	ND	ND	ND	--
Hepta-PBB	ND	ND	ND	ND	ND	ND	--
Octa-PBB	ND	ND	ND	ND	ND	ND	--
Nona-PBB	ND	ND	ND	ND	ND	ND	--
Deca-PBB	ND	ND	ND	ND	ND	ND	--
Sum of PBBs	ND	ND	ND	ND	ND	ND	1000
Mono-PBDE	ND	ND	ND	ND	ND	ND	--
Di- PBDE	ND	ND	ND	ND	ND	ND	--
Tri- PBDE	ND	ND	ND	ND	ND	ND	--



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Tetra- PBDE	ND	ND	ND	ND	ND	ND	--
Penta- PBDE	ND	ND	ND	ND	ND	ND	--
Hexa- PBDE	ND	ND	ND	ND	ND	ND	--
Hepta- PBDE	ND	ND	ND	ND	ND	ND	--
Octa- PBDE	ND	ND	ND	ND	ND	ND	--
Nona- PBDE	ND	ND	ND	ND	ND	ND	--
Deca- PBDE	ND	ND	ND	ND	ND	ND	--
Sum of PBDEs	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	224	233	235	243	250	264	
Mono-PBB	ND	ND	ND	ND	ND	ND	--
Di-PBB	ND	ND	ND	ND	ND	ND	--
Tri-PBB	ND	ND	ND	ND	ND	ND	--
Tetra-PBB	ND	ND	ND	ND	ND	ND	--
Penta-PBB	ND	ND	ND	ND	ND	ND	--
Hexa-PBB	ND	ND	ND	ND	ND	ND	--
Hepta-PBB	ND	ND	ND	ND	ND	ND	--
Octa-PBB	ND	ND	ND	ND	ND	ND	--
Nona-PBB	ND	ND	ND	ND	ND	ND	--
Deca-PBB	ND	ND	ND	ND	ND	ND	--
Sum of PBBs	ND	ND	ND	ND	ND	ND	1000
Mono-PBDE	ND	ND	ND	ND	ND	ND	--
Di- PBDE	ND	ND	ND	ND	ND	ND	--
Tri- PBDE	ND	ND	ND	ND	ND	ND	--
Tetra- PBDE	ND	ND	ND	ND	ND	ND	--
Penta- PBDE	ND	ND	ND	ND	ND	ND	--
Hexa- PBDE	ND	ND	ND	ND	ND	ND	--
Hepta- PBDE	ND	ND	ND	ND	ND	ND	--
Octa- PBDE	ND	ND	ND	ND	ND	ND	--
Nona- PBDE	ND	ND	ND	ND	ND	ND	--
Deca- PBDE	ND	ND	ND	ND	ND	ND	--
Sum of PBDEs	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--



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3. Phthalates results:

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	1	3	4	5	6	7	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	8	10	11	14	15	16	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	20	22	23	24	25	26	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	28	29	31	33	35	37	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	40	44	45	46	48	50	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000



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Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	52	55	57	58	60	62	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	63	64	65	67	69	70	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	72	74	75	76	78	79	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	80	85	88	89	91	93	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	95	98	99	100	102	103	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000



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Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	104	106	108	109	112	116	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	117	119	121	123	124	127	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	128	129	130	133	137	138	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	140	144	146	147	149	150	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--



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Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	151	152	154	156	159	159	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	160	163	164	166	167	170	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	171	178	180	182	184	185	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	187	188	189	193	194	195	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	196	198	199	200	203	205	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000



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Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	208	209	211	214	217	218	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	219	220	223	224	226	227	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	229	230	233	235	236	237	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	238	240	243	244	245	247	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	250	251	252	258	259	260	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000



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Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)						Limit (mg/kg)
	261	263	264	266	267	268	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	PASS	--

Test Item(s)	Result (mg/kg)			Limit (mg/kg)
	270	273	274	
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	1000
Dibutyl phthalate (DBP)	ND	ND	ND	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	1000
Comment	PASS	PASS	PASS	--

Remark:

1. BL = below limit
2. OL = over limit
3. IN = inconclusive, chemical confirm test is recommended
4. NA = not applicable
5. mg/kg = milligram per kilogram = ppm
6. Method Detection Limit (MDL) :10mg/kg for Pb, Cd, Hg and Cr⁶⁺; 10mg/kg for PBB and PBDE
50mg/kg for each of phthalate
7. ND = not detected
8. Negative = The Cr⁶⁺ concentration is below the limit of quantification. The coating is considered a non-Cr⁶⁺ based coating.
9. Positive = The Cr⁶⁺ concentration is above the limit of quantification and the statistical margin of error, The sample coating is considered to contain Cr⁶⁺.
10. The limit for composite test should be divided by the mixed number.

Note:

1. When perform screening tests, it is the result on total Br while test item on restricted substances is PBBs/PBDEs, it is the result on total Cr while test item on restricted substances is Cr⁶⁺.
2. Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-VIS (for Cr⁶⁺) and GC-MS (for PBBs, PBDEs) is recommended to be

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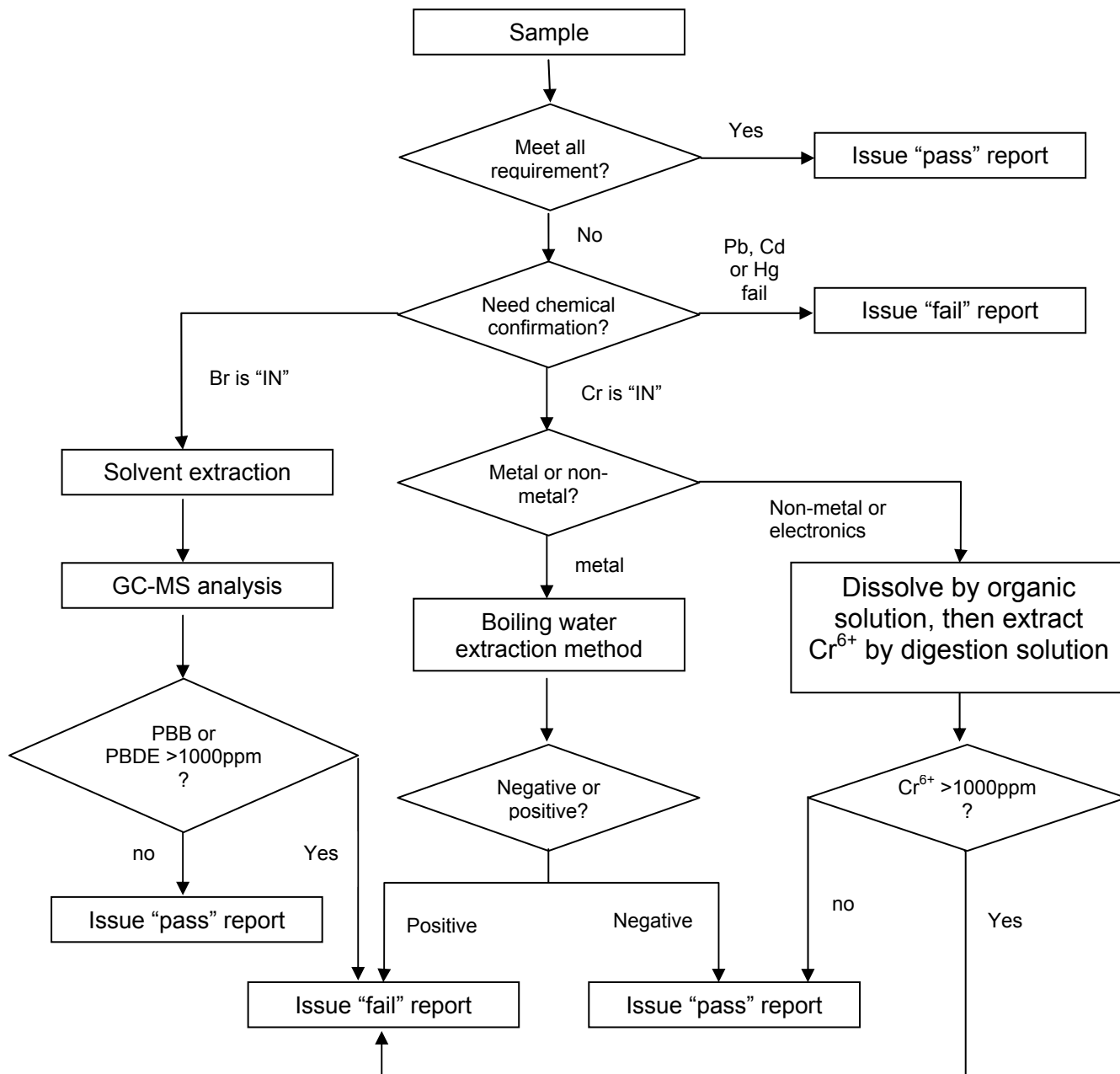
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performed, if the concentration falls into the inconclusive area according to IEC 62321-3-1:2013 (unit: mg/kg)

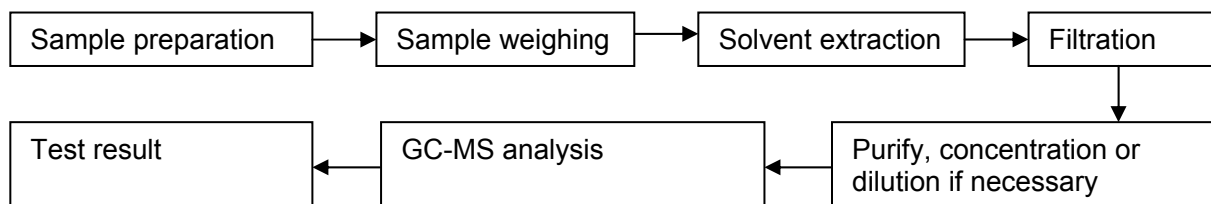
Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	---	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

3. The XRF screening test for RoHS elements. The reading may be different to the actual content in the sample be of non-uniformity composition.
4. # The lead content of tested component exceeded 1000ppm, but less than 40000ppm, it can comply with the RoHS directive, as it is exempted to contain lead with up to 40000ppm according to item 6(c) of annex III of 2011/65/EU, as per applicant's declaration.

Test flow for Pb, Cd, Hg, Cr⁶⁺, PBBs & PBDEs content:



Test flow for phthalates Content:





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Tested sample photo:



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