Test Report

Applicant	:	GZ lucky dance floor Co;Ltd
Address	:	No.10, No.1, Third Street, Chatang Xincun, Tanbu Town, HuaduDistrict, Guangzhou, China 510800
Manufacturer	:	GZ lucky dance floor Co;Ltd
Address	:	No.10, No.1, Third Street, Chatang Xincun, Tanbu Town, HuaduDistrict, Guangzhou, China 510800

The following sample(s) was /were submitted and identified on behalf of the clients as：

Trade Marks	:	LK
Sample Name	:	Led dance floor
Sample Model	:	LK-MD01, LK-M064, LK-RO1, LK-101, LK-ID50C, LK-MD02C, LK-N01, LK-MDO1W, LK-MD01I, LK-MDO1U, LK-MDO2, LK-MDO2W, LK-GL01, LK-GL02, LK-GL03, LK-D36, LK-D36W, LK-D64, LK-D64W, LK-D225, LK-ID64, LK-ID144, LK-D144, LK-D144W, LK-D50, LK-D50W, LK-CH01, LK-CHO1W, LK-CHO2, LK-CHO2W, LK-YTO1I, LK-YTO1W, LK-MB50I, LK-MB5OW, LK-TKO1A, LK-TKO1W, LK-F001, LK-F001w, LK-GQ82, LK-GQ13, LK-LD01D, LK-LD02, LK-LD03
Sample Received Date	:	Aug. 01, 2024
Testing Period	:	Aug. 07, 2024 To Aug. 09, 2024
Test Requested	:	Selected test (s) in the selected parts as requested by client with the RoHS 2 Directive 2011/65/EU Annex II (EU) 2015/863 as last amended by Directive (EU) 2017/2102.
Test Method	:	1. As specified by client, to screen Lead(Pb), Cadmium(Cd), Mercury(Hg), Chromium(Cr) and Bromine(Br) in the submitted sample(s) by XRF. 2. As specified by client, when screening results exceed the XRF screening limit in IEC 62321-3-1: 2013, further use of wet chemical methods are required to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs), Bis(2-ethylhexyl) phthalate (DEHP) ,Butyl benzyl phthalate (BBP), Dibutylphthalate (DBP) ,and Diisobutyl phthalate (DIBP)in the submitted sample(s).
Test Result	:	Please refer to next page(s).
Conclusion	:	**PASS** (Based on test results)

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Signed for and on behalf of

Tony Qian/Approved Signatory

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Summary of Test Results:

TEST REQUEST	CONCLUSION
RoHS Directive 2011/65/EU and its subsequent amendments Directive (EU) 2015/863	
(1)To determine Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)),Polybrominated Biphenyls (PBBs) and Polybrominated DiphenylEthers (PBDEs)content by screening test and chemical test	**PASS**
(2) To determine Phthalates (DBP, BBP, DEHP, DIBP) content by chemical test	**PASS**

Sample Description:

No.	Name
1	Black Plastic Bottom Cover
2	Glass Lamp Plate
3	Driver Metal Shell
4	Metal Sheet
5	PCB
6	Clear Insulation Sheet
7	Red Adhesive Paper
8	Skeleton
9	Magnetic Core
10	Enameled Wire
11	x Capacitor
12	y Capacitance
13	c Capacitance
14	Color Ring Resistors
15	Thermistor
16	i-Beam Inductors
17	Optocoupler
18	Electrolytic Capacitor
19	Diode
20	Triode

No.	Name
21	Inductor Skeleton
22	Inductor Enameled Wire
23	Inductor Metal Case
24	Green Beads
25	Fuse
26	White Plastic
27	Orange Plastic
28	Terminals Black Plastic
29	Terminals Clear Plastic
30	Metal Washer
31	Screw
32	Black Outer Line Skin
33	Blue Line Skin
34	Brown Line Skin
35	Yellow Green Line Skin
36	Wire Core
37	Plug Black Plastic Shell
38	Metal Plug
39	Interface Black Plastic
40	Solder

1. XRF Test Result:

No.	XRF Result(mg/kg)					Chemical Test (mg/kg)	Conclusion
	Pb	Cd	Hg	Cr	Br		
1	BL	BL	BL	BL	BL	--	Pass
2	BL	BL	BL	BL	--	--	Pass
3	BL	BL	BL	BL	--	--	Pass
4	BL	BL	BL	BL	--	--	Pass
5	BL	BL	BL	BL	BL	--	Pass
6	BL	BL	BL	BL	BL	--	Pass
7	BL	BL	BL	BL	BL	--	Pass
8	BL	BL	BL	BL	BL	--	Pass
9	BL	BL	BL	BL	--	--	Pass
10	BL	BL	BL	BL	--	--	Pass
11	BL	BL	BL	BL	--	--	Pass
12	BL	BL	BL	BL	--	--	Pass
13	BL	BL	BL	BL	--	--	Pass
14	BL	BL	BL	BL	--	--	Pass
15	BL	BL	BL	BL	--	--	Pass
16	BL	BL	BL	BL	--	--	Pass
17	BL	BL	BL	BL	--	--	Pass
18	BL	BL	BL	BL	--	--	Pass
19	BL	BL	BL	BL	--	--	Pass
20	BL	BL	BL	BL	--	--	Pass
21	BL	BL	BL	BL	BL	--	Pass

No.	XRF Result(mg/kg)					Chemical Test (mg/kg)	Conclusion
	Pb	Cd	Hg	Cr	Br		
22	BL	BL	BL	BL	--	--	Pass
23	BL	BL	BL	BL	--	--	Pass
24	BL	BL	BL	BL	BL	--	Pass
25	BL	BL	BL	BL	--	--	Pass
26	BL	BL	BL	BL	BL	--	Pass
27	BL	BL	BL	BL	BL	--	Pass
28	BL	BL	BL	BL	BL	--	Pass
29	BL	BL	BL	BL	BL	--	Pass
30	BL	BL	BL	BL	--	--	Pass
31	BL	BL	BL	BL	--	--	Pass
32	815	BL	BL	BL	BL	--	Pass
33	BL	BL	BL	BL	BL	--	Pass
34	BL	BL	BL	BL	BL	--	Pass
35	BL	BL	BL	BL	BL	--	Pass
36	BL	BL	BL	BL	--	--	Pass
37	BL	BL	BL	BL	BL	--	Pass
38	747	32	BL	15	--	--	Pass
39	BL	BL	BL	BL	BL	--	Pass
40	951	BL	BL	BL	--	--	Pass

Remark:

1. It is the result on total Br while test item on restricted substances in PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr(VI).
2. Screening test by XRF spectroscopy

XRF screening limits in mg/kg for regulated elements according to IEC 62321-3-1: 2013Annex A.

Element	Polymer Material	Metallic Material	Composite Material
Pb	BL≤700-3σ≤X＜1300+3σ≤OL	BL≤700-3σ≤X＜1300+3σ≤OL	BL≤500-3σ≤X＜1500+3σ≤OL
Cd	BL≤70-3σ≤X＜130+3σ≤OL	BL≤70-3σ≤X＜130+3σ≤OL	LOD＜X＜150+3σ≤OL
Hg	BL≤700-3σ≤X＜1300+3σ≤OL	BL≤700-3σ≤X＜1300+3σ≤OL	BL≤500-3σ≤X＜1500+3σ≤OL
Cr	BL≤700-3σ＜X	BL≤700-3σ＜X	BL≤500-3σ＜X
Br	BL≤300-3σ＜X	--	BL≤250-3σ＜X

XRF detection limits in mg/kg for regulated elements in various material

Element	Polymer Material	Metallic Material	Composite Material
Pb	10	50	50
Cd	10	50	50
Hg	10	50	50
Cr	10	50	50
Br	10	50	50

Note: -BL = Under the XRF screening limit

-OL = Future chemical test will be conducted while result is above the screening limit

-X =The symbol“X”marks the region where further investigation in necessary

-3σ=The reproducibility of analytical instruments

-LOD=Detection limit

2. Wet Chemical Test

Test Item(s)	Test Method/ Test Equipment	Unit	Limit	MDL
Cadmium(Cd)	IEC 62321-5:2013, ICP-OES	mg/kg	100	2
Lead(Pb)	IEC 62321-5:2013, ICP-OES	mg/kg	1000	2
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017, ICP-OES	mg/kg	1000	2
Hexavalent Chromium(CrVI) (Metal)	IEC 62321-7-1:2015, UV-Vis	$\mu g/cm^2$	0.13	0.1
Hexavalent Chromium(CrVI) (Nonmetal)	IEC 62321-7-2:2017, UV-Vis	mg/kg	1000	8
PBBs (Next form)	IEC 62321-6:2015, GC-MS	mg/kg	1000	5
PBDEs (Next form)	IEC 62321-6:2015, GC-MS	mg/kg	1000	5
Dibutyl Phthalate(DBP)	IEC 62321-8:2017, GC-MS	mg/kg	1000	30
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017, GC-MS	mg/kg	1000	30
Di-(2-ethylhexyl) Phthalate(DEHP)	IEC 62321-8:2017, GC-MS	mg/kg	1000	30
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017, GC-MS	mg/kg	1000	30

PBBs		PBDEs	
Monobromobiphenyl	Hexabromobiphenyl	Monobromodiphenyl ether	Hexabromodiphenyl ether
Dibromobiphenyl	Heptabromobiphenyl	Dibromodiphenyl ether	Heptabromodiphenyl ether
Tribromobiphenyl	Octabromobiphenyl	Tribromodiphenyl ether	Octabromodiphenyl ether
Tetrabromobiphenyl	Nonabromobiphenyl	Tetrabromodiphenyl ether	Nonabromodiphenyl ether
Pentabromobiphenyl	Decabromobiphenyl	Pentabromodiphenyl ether	Decabromodiphenyl ether

Note: 1. mg/kg= ppm=0.0001%

2. N.D.= Not Detected(<MDL)

3. MDL = Method Detection Limit
4. -- = No Testing
5. When Cr (VI) in a sample is detected below the 0.10 μg/cm^2 LOQ (limit of quantification), the sample is considered to be negative for Cr (VI). Since Cr (VI) may not be uniformly distributed in the coating even within the same sample batch, a "grey zone" between 0.10 μg/cm^2 and 0.13 μg/cm^2 has been established as "inconclusive" to reduce inconsistent results due to unavoidable coating variations. In this case, additional testing may be necessary to confirm the presence of Cr (VI). When Cr (VI) is detected above 0.13 μg/cm^2, the sample is considered to be positive for the presence of Cr (VI) in the coating layer. Unavoidable coating variations may influence the determination Information on storage conditions and production date of the tested sample is unavailable and thus Cr (VI) results represent status of the sample at the time of testing.

3. Phthalate Test Result:

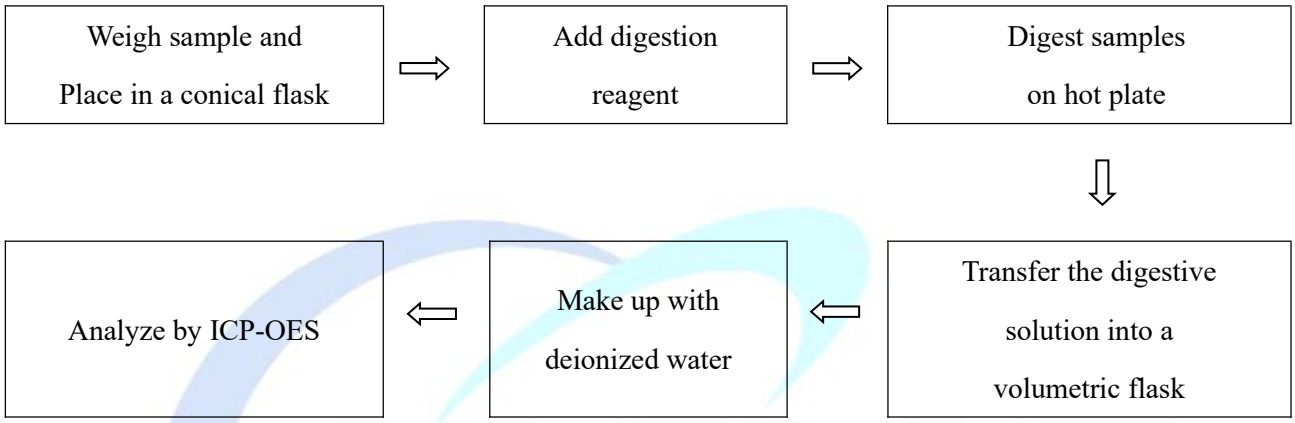
Test No.	Test Item(s)				Conclusion
	Dibutyl Phthalate (DBP)	Butyl benzyl phthalate (BBP)	Di-(2-ethylhexyl) Phthalate (DEHP)	Diisobutyl phthalate (DIBP)	
1	N.D.	N.D.	N.D.	N.D.	Pass
5	N.D.	N.D.	N.D.	N.D.	Pass
6	N.D.	N.D.	N.D.	N.D.	Pass
7	N.D.	N.D.	N.D.	N.D.	Pass
8	N.D.	N.D.	N.D.	N.D.	Pass
21	N.D.	N.D.	N.D.	N.D.	Pass
24	N.D.	N.D.	N.D.	N.D.	Pass
26	N.D.	N.D.	N.D.	N.D.	Pass
27	N.D.	N.D.	N.D.	N.D.	Pass
28	N.D.	N.D.	N.D.	N.D.	Pass
29	N.D.	N.D.	N.D.	N.D.	Pass
32	N.D.	N.D.	N.D.	N.D.	Pass
33	N.D.	N.D.	N.D.	N.D.	Pass
34	N.D.	N.D.	N.D.	N.D.	Pass
35	N.D.	N.D.	N.D.	N.D.	Pass
37	N.D.	N.D.	N.D.	N.D.	Pass
39	N.D.	N.D.	N.D.	N.D.	Pass

Note: 1. mg/kg= ppm=0.0001%

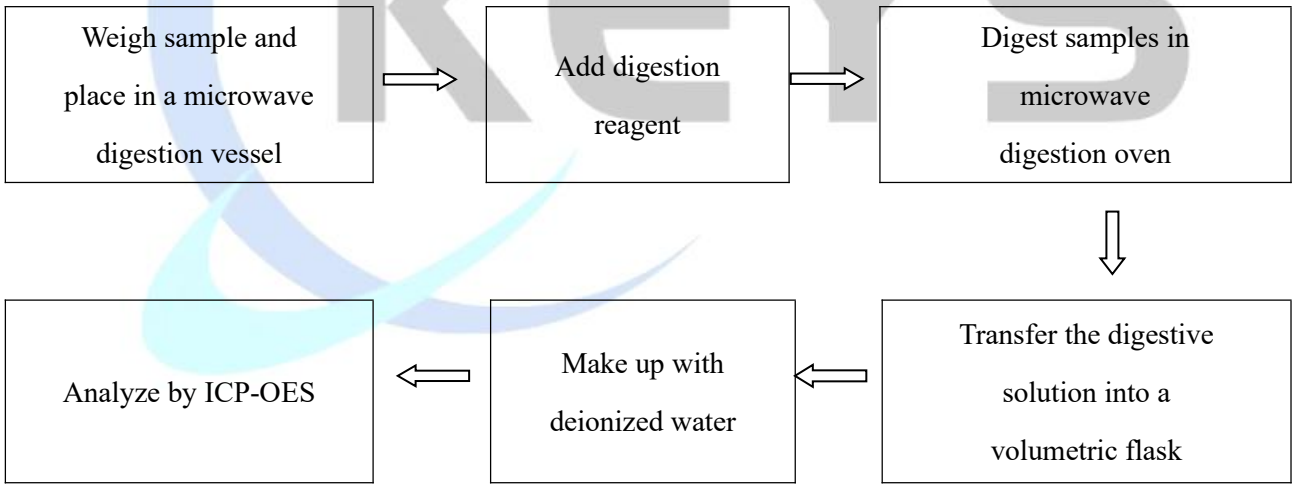
2. N.D.= Not Detected(<MDL)

Test Process:

1. Test for Cd/Pb Content

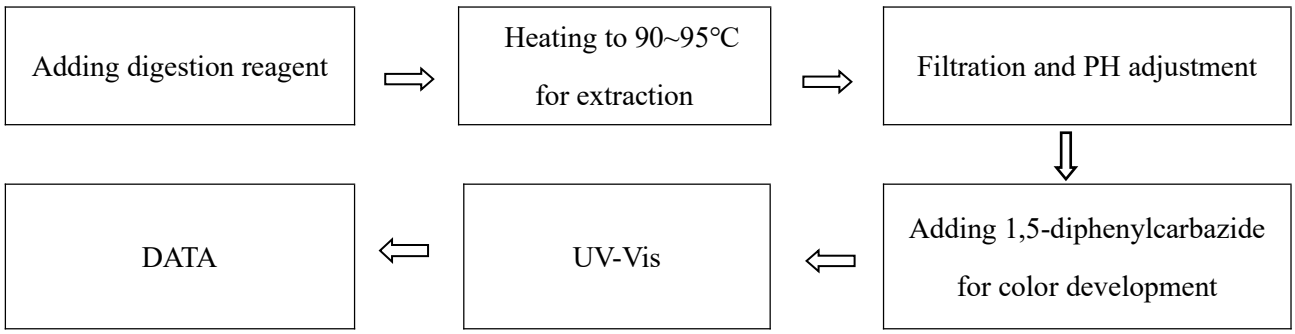


2. Test for Hg Content

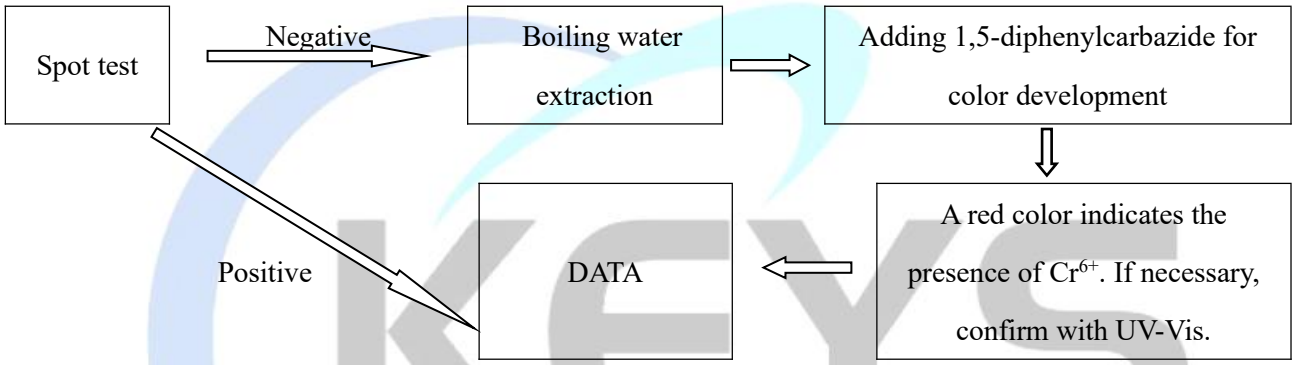


3. Test for Chromium (VI) Content

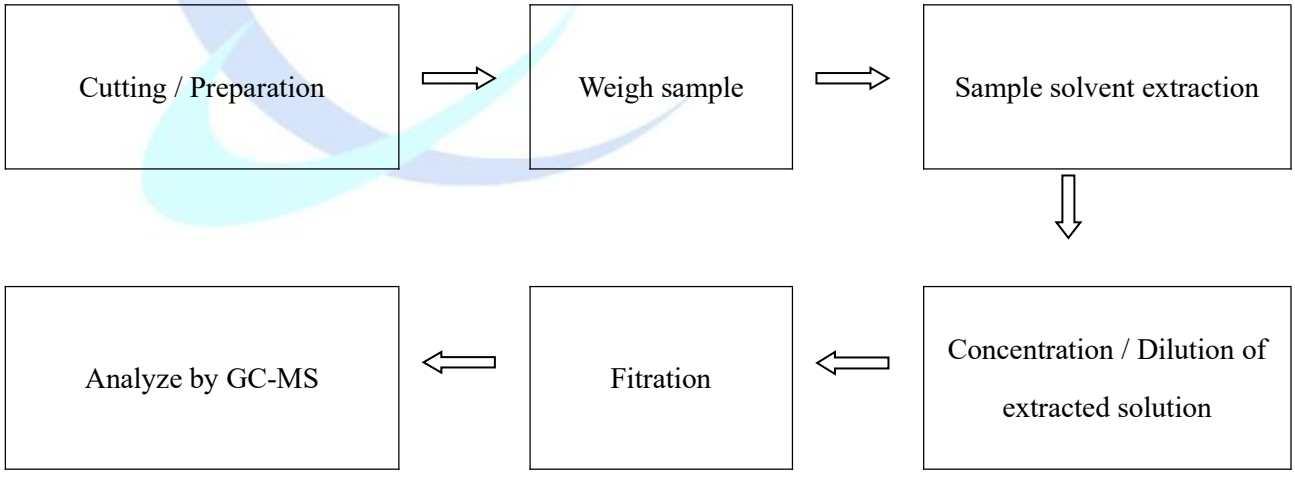
Nonmetal material



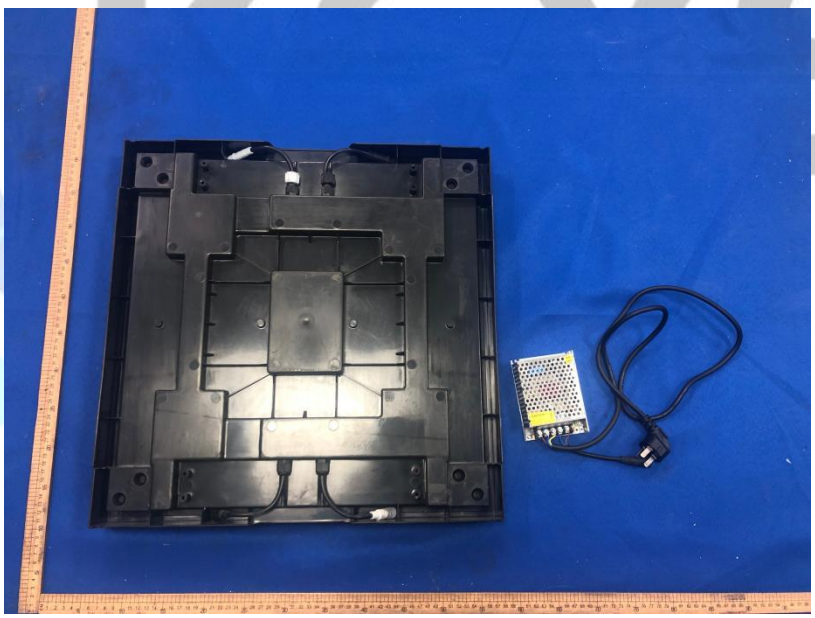
Metal material

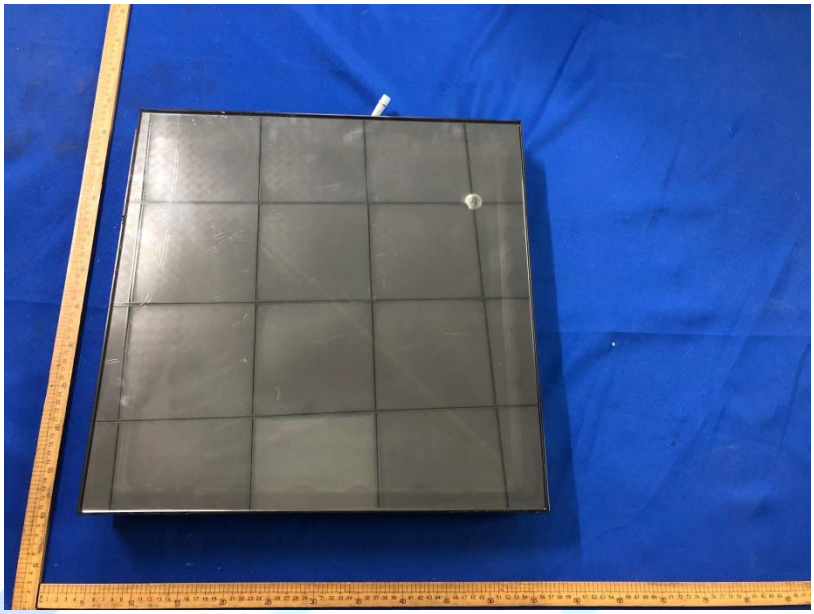


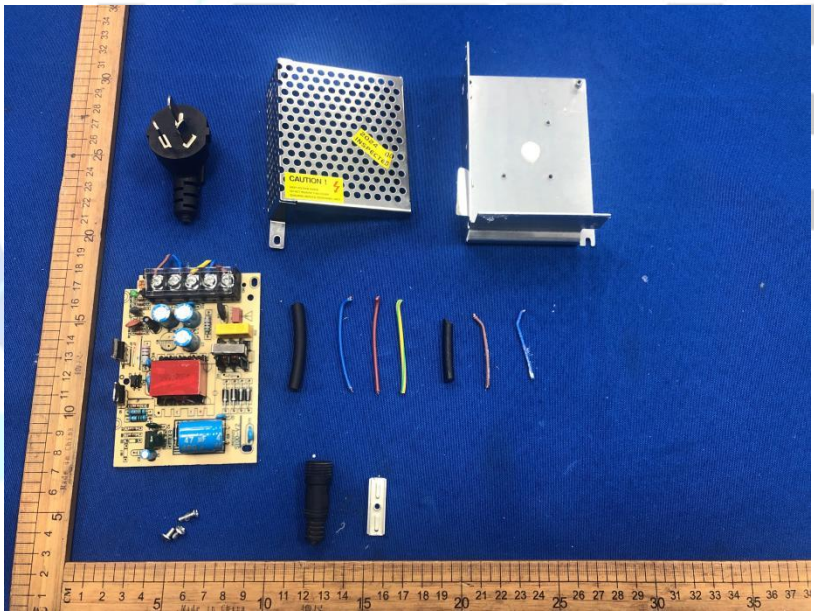
4. Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content

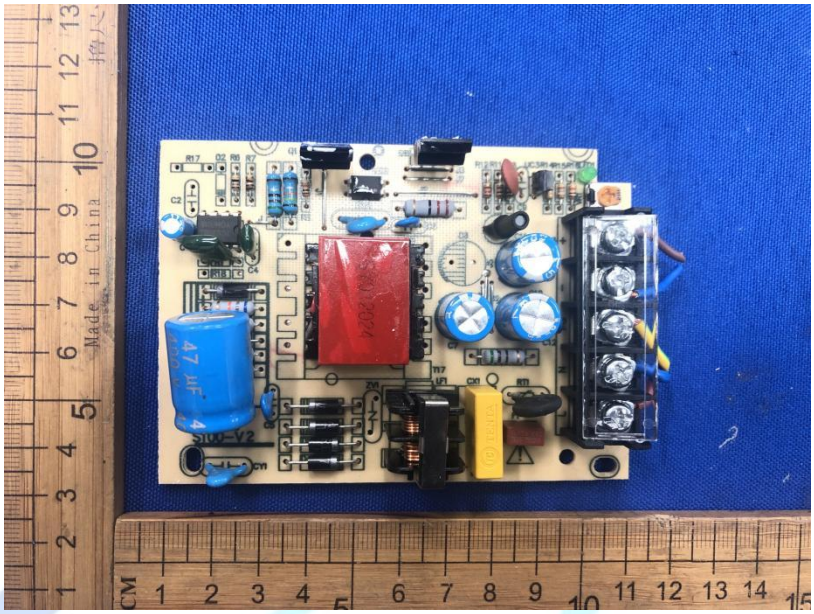


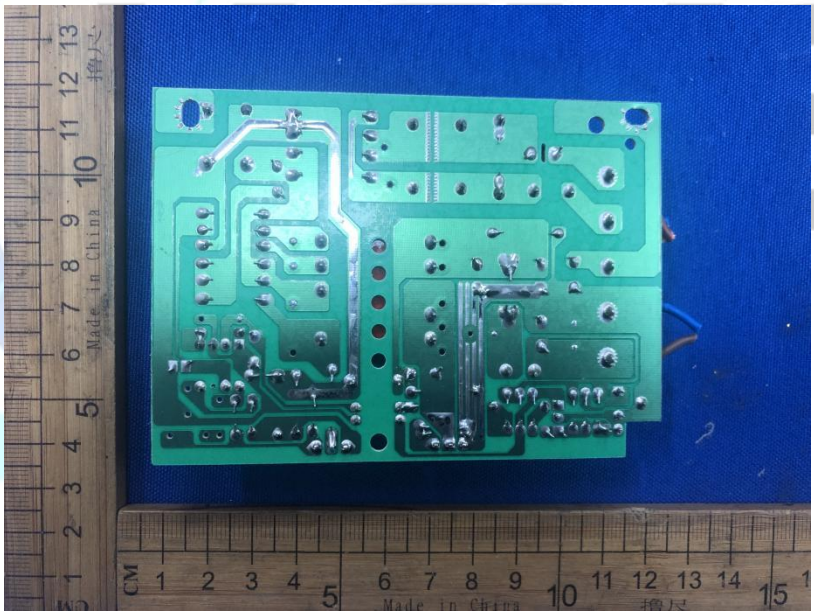
Sample Photo:











*** End of Report ***