

TEST REPORT

Applicant: Namirial SPA
Address: Via Caduti sul Lavoro n.4, 60019 Senigallia, ITALY

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

Sample name: LCD Tablet
Model: NT11032
Manufacturer: Namirial SPA
Address: Via Caduti sul Lavoro n.4, 60019 Senigallia, ITALY

Sample No.: S241122050001
Sample Received Date: 2024-12-18
Testing Period: 2024-12-18~ 2024-12-26

Test Requirement:

As specified by client, to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs), Bis-(2-ethylhexyl) Phthalate (DEHP), Benzyl butyl Phthalate (BBP), Dibutyl Phthalate (DBP) and Diisobutyl Phthalate(DIBP) contents in the submitted sample(s) in accordance with RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Conclusion

Pass

Test Result(s): Please refer to the following page(s);

Test Method: Please refer to the following page(s);

Compiled by:

Zane. W

Reviewed by:

Luetta Mo

Approved by:

May Li

Date:

2024-12-26

Sample Description:

Report No.	Test No.	Sample name	Description
1	1	Flat shell	Black plastic shell
2	2		Silver label
3	3		Golden metal nut
4	4		Black coating of black frame
5	5		Metal base material of black frame
6	6		Silver metal rod
7	7		Black rubber pad
8	8		Silver conductive fabric
9	9		Black foam
10	10		Black plastic sheet with glue
11	11		Black plastic frame
12	12		Transparent glass with black edge
13	13		Black foam glue
14	14		Yellow FPC
15	15		Black plastic sheet
16	16		Silver metal sheet
17	17		Black metal screw(large)
18	18		Black metal screw(small)
19	19	Screen	Black LCD screen
20	20		Green FPC
21	21		Silver plastic sheet with glue
22	22		Silver reflective plastic sheet
23	23		Transparent plastic sheet
24	24		Translucent plastic sheet with black edge
25	25		White plastic sheet
26	26		Transparent plastic plate
27	27		White plastic frame
28	28		Yellow/white FPC
29	29		SMD LED
30	30		Black adhesive tape
31	31		Silver metal cover
32	32		Black adhesive fabric of silver metal cover
33	33		Black adhesive tape of silver metal cover
34	34		White FPC of silver metal cover
35	35		Brown paper sheet of silver metal cover
36	36		Transparent double-sided adhesive of silver metal cover

37	37	Screen wire	Silver metal shell of beige interface
38	38		Beige plastic of beige interface
39	39		Golden metal plug pin of beige interface
40	40		Silver metal wire of golden interface
41	41		Golden metal shell of golden interface
42	42		Black plastic of golden interface
43	43		Golden metal plug pin of golden interface
44	44		Red wire jacket(thin)
45	45		Orange wire jacket
46	46		Yellow wire jacket
47	47		Green wire jacket(thin)
48	48		Blue wire jacket
49	49		Purple wire jacket
50	50		Black thin wire jacket
51	51		White thin wire jacket
52	52		Metal wire core
53	53		Beige plastic of beige interface
54	54		Golden metal plug pin of beige interface
55	55		White plastic of white interface
56	56		Silver metal plug pin of white interface
57	57		Red wire jacket(thick)
58	58		Green wire jacket(thick)
59	59		Black thick wire jacket
60	60		White thick wire jacket
61	61		Metal wire core of wire
62	62	Screen	Green PCB
63	63		White label
64	64		Golden metal shell of golden interface
65	65		Black plastic of golden interface
66	66		Metal plug pin of golden interface
67	67		White plastic of white/black interface
68	68		Black plastic of white/black interface
69	69		Metal plug pin of white/black interface
70	70		SMD inductor
71	71		Chip(large)
72	72	PCBA(QV116-FH8-N81-3D30-V02)	Chip(small)
73	73		Green PCB
74	74		Beige plastic of beige interface
75	75		Golden metal plug pin of beige interface
76	76		Black plastic of black interface
77	77	PCBA1(Display-11.6-EDP-Rev 5)	Silver metal plug pin of black interface

78	78	PCBA1(Display-11.6-EDP-Rev 5)	Silver metal shell of type-c interface
79	79		Black plastic of type-c interface
80	80		Silver metal plug pin of type-c interface
81	81A		Tin solder
82	82		Magnet core of inductor
83	83		Coil of inductor
84	84		Chip(large)
85	85		Chip(small)
86	86		SMD resistor
87	87		SMD crystal
88	88		SMD diode
89	89		SMD capacitor
90	90		SMD inductor
91	91	PCBA2(E360485-BQ-1 94V-0)	Green PCB
92	92		White label
93	93		Transparent double-sided adhesive
94	94		Yellow transparent adhesive tape
95	95		White plastic of white/black interface
96	96		Black plastic of white/black interface
97	97		Metal plug pin of white/black interface
98	98		Beige plastic of beige interface
99	99		Golden metal plug pin of beige interface
100	100		SMD chip
101	101		SMD crystal
102	102	PCBA3(E360485-BQ-1 94V-0)	Green PCB
103	103		White QR code label
104	104		Transparent double-sided adhesive
105	105		Beige plastic of beige/black interface
106	106		Black plastic of beige/black interface
107	107		Metal plug pin of beige/black interface
108	108		White plastic of white/black interface
109	109		Black plastic of white/black interface
110	110		Metal plug pin of white/black interface
111	111		SMD chip
112	112		SMD crystal
113	113	Capacitive pen	Black plastic shell
114	114		White colloid
115	115		Gray plastic shell
116	116		Gray magnet ring of written
117	117		Varnished wire of written
118	118		Cupreous metal contact pin of written

119	119	Capacitive pen	Gray rubber of written
120	120		Silver metal spring of written
121	121		Black ink of written
122	122		Green PCB
123	123		Silver metal clasp
124	124		Black braided rope(thick)
125	125		Black braided rope(thin)
126	126		Black rubber block
127	127	Data cable	Black encapsulation of USB interface(large)
128	128		Cupreous foil of USB interface(large)
129	129		Silver metal shell of USB interface(large)
130	130		White plastic of USB interface(large)
131	131		Metal plug pin of USB interface(large)
132	132		Black plastic of USB interface(large)
133	133		Tin solder of USB interface(large)
134	134		Black encapsulation of USB interface(small)
135	135		Cupreous foil of USB interface(small)
136	136		Silver metal shell of USB interface(small)
137	137		Beige plastic of USB interface(small)
138	138		Metal plug pin of USB interface(small)
139	139		Black encapsulation of Micro interface
140	140		Silver metal shell of Micro interface
141	141		Black plastic of Micro interface
142	142		Metal plug pin of Micro interface
143	143		Black exterior wire jacket
144	144		Silver metal mesh
145	145		Silver aluminum foil
146	146		Red wire jacket
147	147		Green wire jacket
148	148		Black wire jacket
149	149		White wire jacket
150	150		Silver metal wire core

Test Result(s):
Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers(PBDEs)

Part No.	Test Items		XRF Screening Result(mg/kg)	Chemical Test Result(mg/kg)	Conclusion
1	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	IN	N.D.	
		PBDEs		N.D.	
2	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
3	Pb		OL	23740 ^{#1}	Pass
	Cd		IN	12	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
4	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
5	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
6	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	IN	N.D.	
	Br	PBBs	/	/	
		PBDEs		/	

7	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
8	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
9	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
10	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
11	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	IN	N.D.	
		PBDEs		N.D.	
12	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	

13	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
14	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
15	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
16	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
17	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	IN	N.D.	
	Br	PBBs	/	/	
		PBDEs		/	
18	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	

19	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
20	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	IN	N.D.	
		PBDEs		N.D.	
21	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
22	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
23	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
24	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	

25	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
26	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
27	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
28	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
29	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
30	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	

31	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
32	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	IN	N.D.	
		PBDEs		N.D.	
33	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
34	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	IN	N.D.	
		PBDEs		N.D.	
35	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
36	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	

37	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	IN	N.D.	
	Br	PBBs	/	/	
		PBDEs		/	
38	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	IN	N.D.	
		PBDEs		N.D.	
39	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
40	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	IN	N.D.	
	Br	PBBs	/	/	
		PBDEs		/	
41	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
42	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	

43	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
44	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
45	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
46	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
47	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
48	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	

49	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
50	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
51	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
52	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
53	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	IN	N.D.	
		PBDEs		N.D.	
54	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	

55	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
56	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
57	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
58	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
59	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
60	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	

61	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
62	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
63	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
64	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
65	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
66	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	

67	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
68	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
69	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
70	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
71	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
72	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	

73	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	IN	N.D.	
		PBDEs		N.D.	
74	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
75	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
76	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
77	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
78	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	

79	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
80	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
81	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
82	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	IN	N.D.	
	Br	PBBs	/	/	
		PBDEs		/	
83	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
84	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	

85	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
86	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	IN	N.D.	
	Br	PBBs	BL	/	
		PBDEs		/	
87	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
88	Pb		2970 ^{#2}	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
89	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
90	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	

91	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	IN	N.D.	
		PBDEs		N.D.	
92	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
93	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
94	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
95	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
96	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	

97	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
98	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	IN	N.D.	
		PBDEs		N.D.	
99	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
100	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
101	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
102	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	IN	N.D.	
		PBDEs		N.D.	

103	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
104	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
105	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
106	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
107	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
108	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	

109	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
110	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
111	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
112	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
113	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	IN	N.D.	
		PBDEs		N.D.	
114	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	

115	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
116	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
117	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
118	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
119	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
120	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	IN	N.D.	
	Br	PBBs	/	/	
		PBDEs		/	

121	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
122	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	IN	N.D.	
		PBDEs		N.D.	
123	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	IN	N.D.	
	Br	PBBs	/	/	
		PBDEs		/	
124	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
125	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
126	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	

127	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
128	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
129	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
130	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	IN	N.D.	
		PBDEs		N.D.	
131	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
132	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	

133	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
134	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
135	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
136	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
137	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
138	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	

139	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
140	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	IN	N.D.	
	Br	PBBs	/	/	
		PBDEs		/	
141	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
142	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	
143	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
144	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	

145	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
146	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
147	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
148	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
149	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	BL	/	
		PBDEs		/	
150	Pb		BL	/	Pass
	Cd		BL	/	
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	
	Br	PBBs	/	/	
		PBDEs		/	

Bis-(2-ethylhexyl) Phthalate (DEHP), Benzyl butyl Phthalate (BBP), Dibutyl Phthalate (DBP) and Diisobutyl Phthalate(DIBP)

Test Items	Result(mg/kg)		
	1+11+26+27+38	2+63+92+103	4
Bis-(2-ethylhexyl) Phthalate (DEHP)	N.D.	N.D.	63
Benzyl butyl Phthalate (BBP)	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.
Diisobutyl Phthalate(DIBP)	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass

Test Items	Result(mg/kg)		
	7+126	8	9+13
Bis-(2-ethylhexyl) Phthalate (DEHP)	N.D.	N.D.	N.D.
Benzyl butyl Phthalate (BBP)	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.
Diisobutyl Phthalate(DIBP)	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass

Test Items	Result(mg/kg)		
	10+15+21+22	14+20+28+34	23+24+25+35
Bis-(2-ethylhexyl) Phthalate (DEHP)	N.D.	N.D.	N.D.
Benzyl butyl Phthalate (BBP)	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.
Diisobutyl Phthalate(DIBP)	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass

Test Items	Result(mg/kg)		
	30+33+94	32	36+93+104
Bis-(2-ethylhexyl) Phthalate (DEHP)	N.D.	422	N.D.
Benzyl butyl Phthalate (BBP)	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.
Diisobutyl Phthalate(DIBP)	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass

Test Items	Result(mg/kg)		
	42+53+55+65+67	44+45+46	47+48+49
Bis-(2-ethylhexyl) Phthalate (DEHP)	N.D.	N.D.	N.D.
Benzyl butyl Phthalate (BBP)	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.
Diisobutyl Phthalate(DIBP)	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass

Test Items	Result(mg/kg)		
	50+51+57	58+59+60	62+73
Bis-(2-ethylhexyl) Phthalate (DEHP)	N.D.	N.D.	N.D.
Benzyl butyl Phthalate (BBP)	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.
Diisobutyl Phthalate(DIBP)	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass

Test Items	Result(mg/kg)		
	68+74+76+79+95	91+102+122	96+98+105+106+108
Bis-(2-ethylhexyl) Phthalate (DEHP)	N.D.	N.D.	N.D.
Benzyl butyl Phthalate (BBP)	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.
Diisobutyl Phthalate(DIBP)	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass

Test Items	Result(mg/kg)		
	109+113+115+121	114	117
Bis-(2-ethylhexyl) Phthalate (DEHP)	N.D.	N.D.	N.D.
Benzyl butyl Phthalate (BBP)	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.
Diisobutyl Phthalate(DIBP)	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass

Test Items	Result(mg/kg)		
	119	124+125	127+134+139
Bis-(2-ethylhexyl) Phthalate (DEHP)	N.D.	N.D.	N.D.
Benzyl butyl Phthalate (BBP)	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.
Diisobutyl Phthalate(DIBP)	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass

Test Items	Result(mg/kg)		
	130+132+137 +141	143+146+147	145
Bis-(2-ethylhexyl) Phthalate (DEHP)	N.D.	N.D.	N.D.
Benzyl butyl Phthalate (BBP)	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.
Diisobutyl Phthalate(DIBP)	N.D.	N.D.	N.D.
Conclusion	Pass	Pass	Pass

Test Items	Result(mg/kg)	
	148+149	
Bis-(2-ethylhexyl) Phthalate (DEHP)	N.D.	
Benzyl butyl Phthalate (BBP)	N.D.	
Dibutyl Phthalate (DBP)	N.D.	
Diisobutyl Phthalate(DIBP)	N.D.	
Conclusion	Pass	

- Note:
- 1.N.D. = Not Detected (<MDL)
 - MDL = Method Detection Limit
 - 1mg/kg = 1ppm =0.0001%
 - /=Not Regulated or Not Applicable
 - 2. BL = Below the XRF screening limit
 - IN = Further chemical test will be conducted when the screening result inconclusive
 - OL = Further chemical test will be conducted while the result is above the screening limit.
 - 3. For metal samples, the sample is negative for Cr(VI), if the Cr(VI) concentration is less than 0.10 µg/cm², the coating is considered a non- Cr(VI) based coating;
The sample is positive for Cr(VI), if the Cr(VI) concentration is greater than 0.13 µg/cm²,
The sample coating is considered to contain Cr(VI);
The result is considered to be inconclusive, the Cr(VI) concentration is between the 0.10 µg/cm² and 0.13 µg/cm², unavoidable coating variations may influence the determination.
Because the storage condition and production date of the sample are not known, the test results of the sample of hexavalent chromium can only represent the state of hexavalent chromium in the samples tested.
- Remark:
- 1. When conducting the test for PBBs&PBDEs, XRF was introduced to screen Br Exclusively; When conducting the test for Hexavalent Chromium, XRF was introduced to screen Chromium exclusively.
 - 2. According to the client's statement , the material of the sample(s) comply with RoHS directive 2011/65/EU Annex III Exemption, Corresponding exemption clause:
 - #1 6(c) Lead is exempted as copper alloy containing up to 4% lead by weight .
 - #2 7(c)-I Lead is exempted as Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.
 - 3. Part No.81 Resubmitted Date: Dec. 26, 2024.

Test Method:

1. With reference to IEC 62321-1: 2013 Ed.1.0, IEC 62321-2:2021 Ed.2.0, IEC 62321-3-1:2013 Ed.1.0. XRF screening limits in mg/kg for regulated elements in various matrices.

Element	Limit of IEC 62321-3-1:2013 Ed.1.0 (mg/kg)		
	Polymers	Metals	Composite material
Pb	$BL \leq (700-3\sigma) < X$ $< (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X$ $< (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X$ $< (1500+3\sigma) \leq OL$
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X$ $< (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X$ $< (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X$ $< (1500+3\sigma) \leq OL$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$
Br	$BL \leq (300-3\sigma) < X$	/	$BL \leq (250-3\sigma) < X$

Note: BL= Below the XRF screening limit
 OL=Over the XRF screening limit
 X=The symbol "X" marks the region where further investigation is necessary.
 3σ =The reproducibility of analytical instruments
 LOD= Detection limit

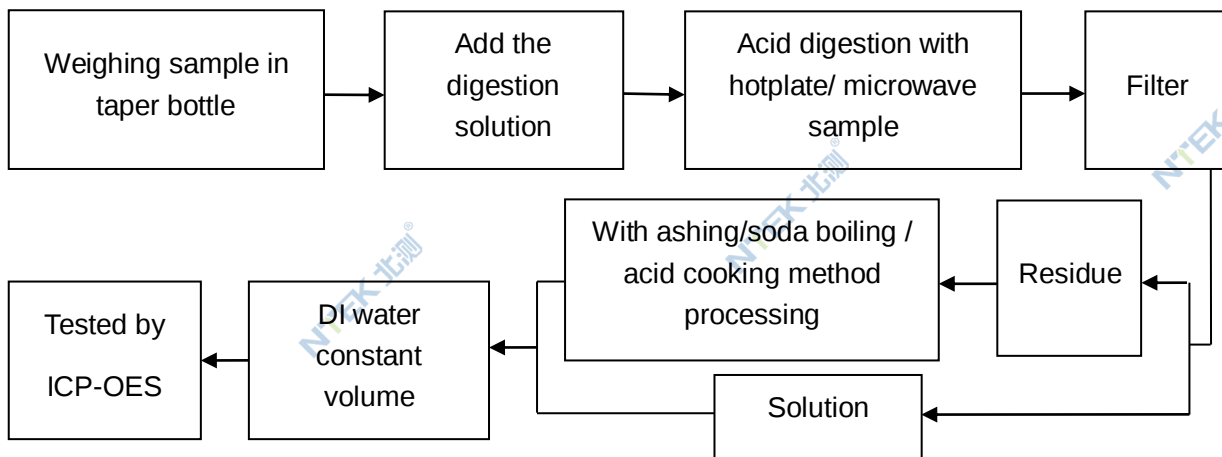
2. Chemical Test

Test item	Test method	Test instrument	MDL	Limit ^Δ
Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	1000 mg/kg
Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	100 mg/kg
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000 mg/kg
Hexavalent Chromium(Cr(VI))	IEC 62321-7-1:2015 Ed.1.0	UV-Vis	0.10 µg/cm ²	1000 mg/kg
	IEC 62321-7-2:2017 Ed.1.0		8 mg/kg	
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg	1000 mg/kg
Polybrominated, Diphenyl Ethers(PBDEs)	IEC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg	1000 mg/kg
Bis-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 Ed.1.0	GC-MS	30 mg/kg	1000 mg/kg
Benzyl butyl Phthalate (BBP)	IEC 62321-8:2017 Ed.1.0	GC-MS	30 mg/kg	1000 mg/kg
Dibutyl Phthalate (DBP)	IEC 62321-8:2017 Ed.1.0	GC-MS	30 mg/kg	1000 mg/kg
Diisobutyl Phthalate (DIBP)	IEC 62321-8:2017 Ed.1.0	GC-MS	30 mg/kg	1000 mg/kg

^ΔThe limit is quoted from RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

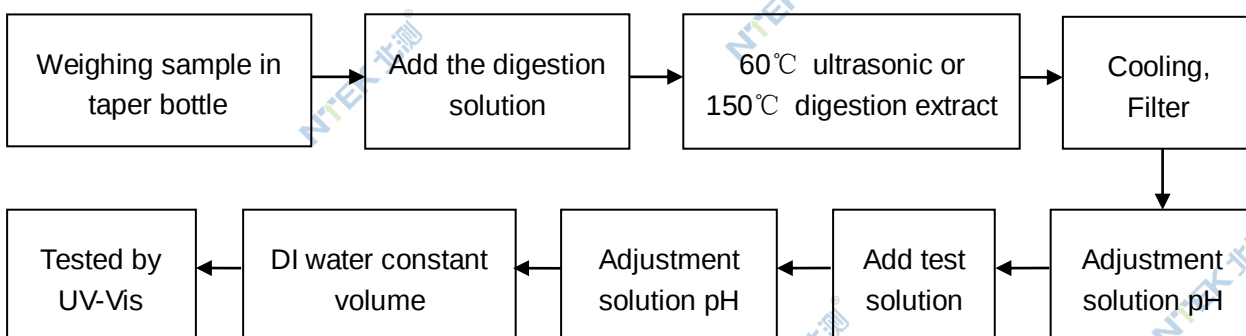
Test Flow:

1. Lead(Pb), Cadmium(Cd) , Mercury (Hg)

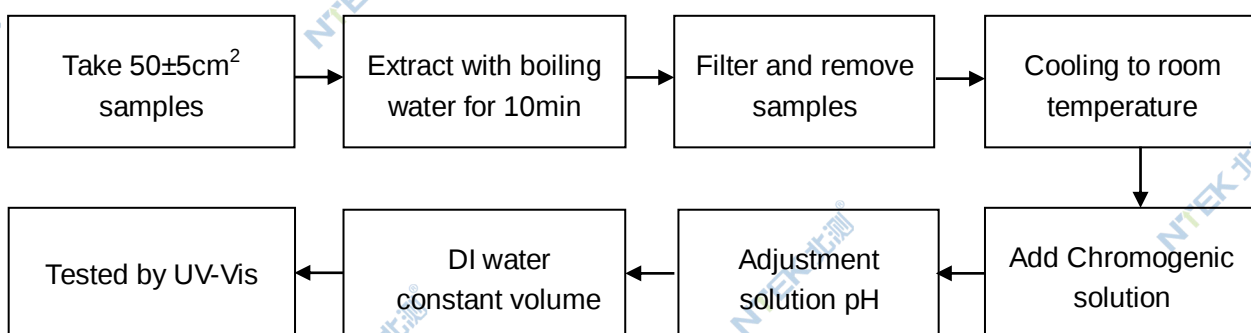


2. Hexavalent Chromium(Cr(VI))

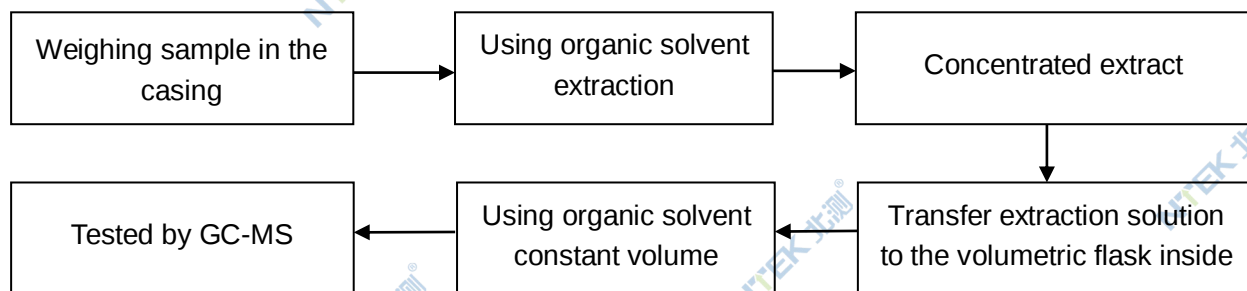
2.1 Non- metal sample(s)



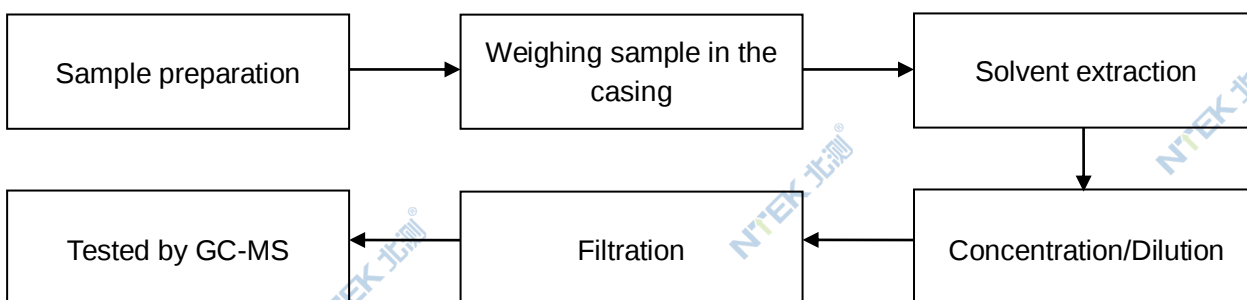
2.2 Metal sample(s)



3. PBBs/ PBDEs



4. Phthalates



Sample photo(s):



Fig.1 (Finished photo)



Fig.2 (Finished photo)



Fig.3

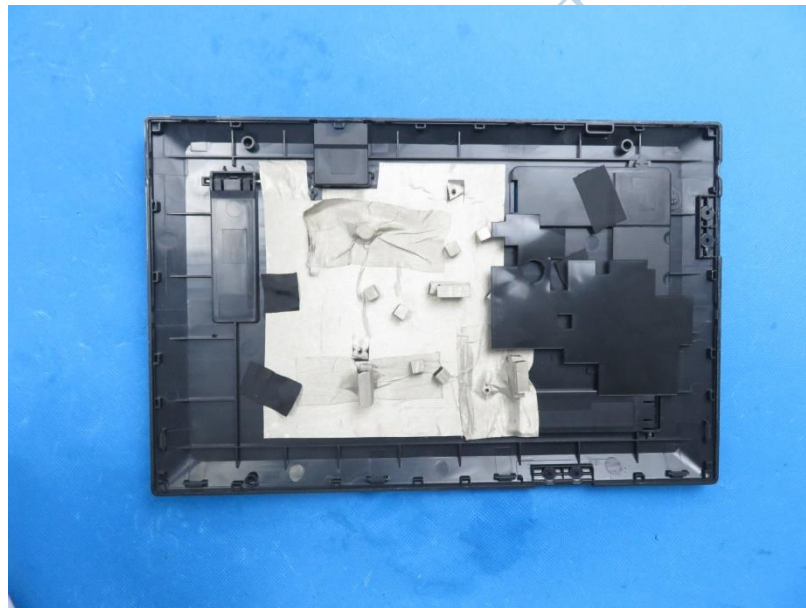


Fig.4



Fig.5



Fig.6



Fig.7

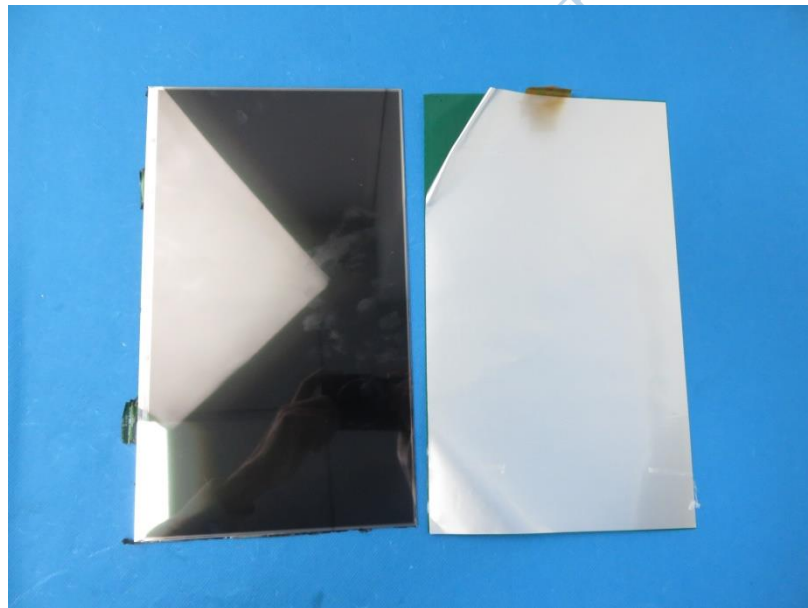


Fig.8

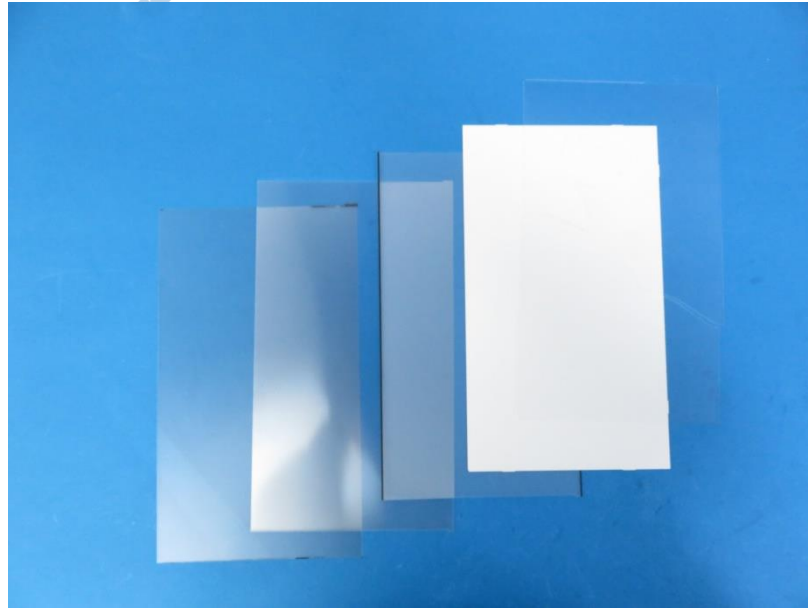


Fig.9



Fig.10



Fig.11

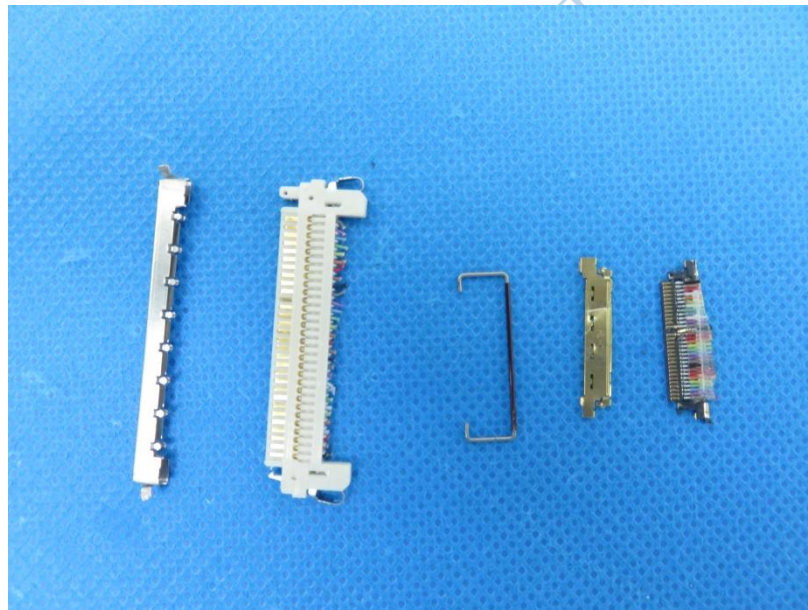


Fig.12



Fig.13

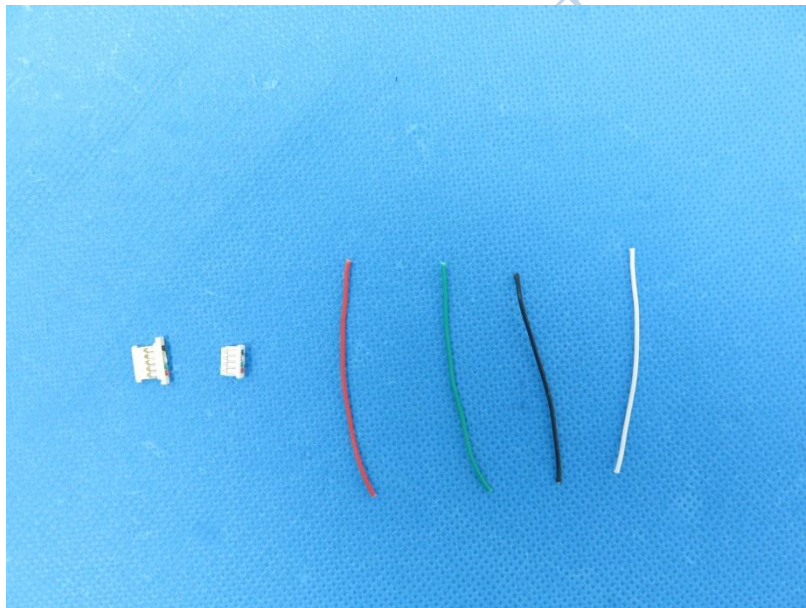


Fig.14



Fig.15

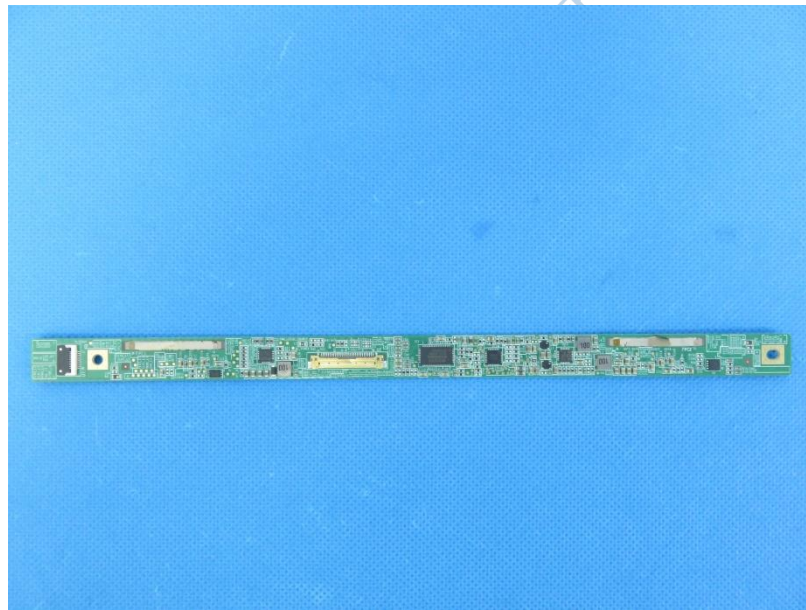


Fig.16

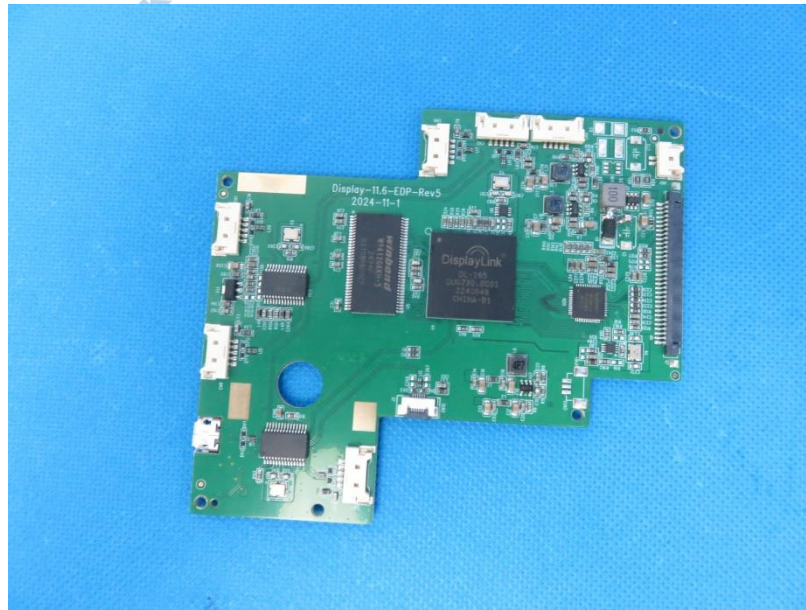


Fig.17

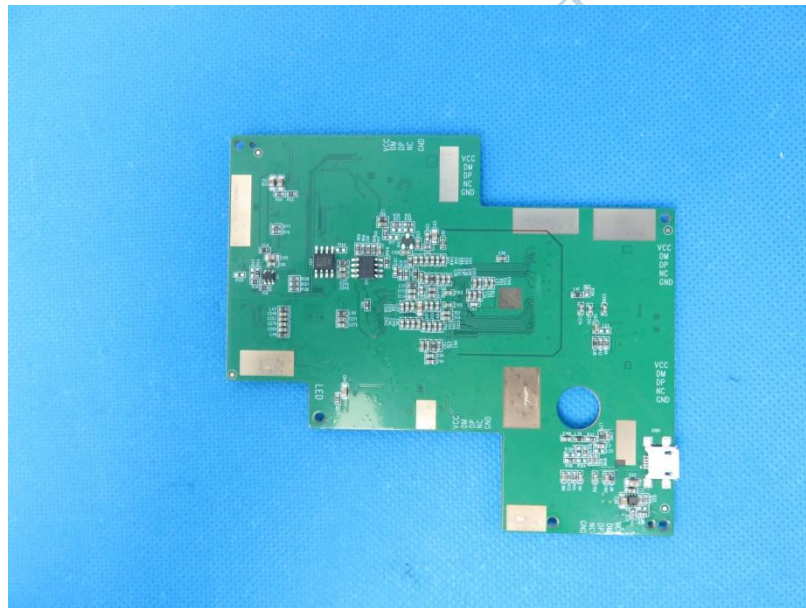


Fig.18



Fig.19

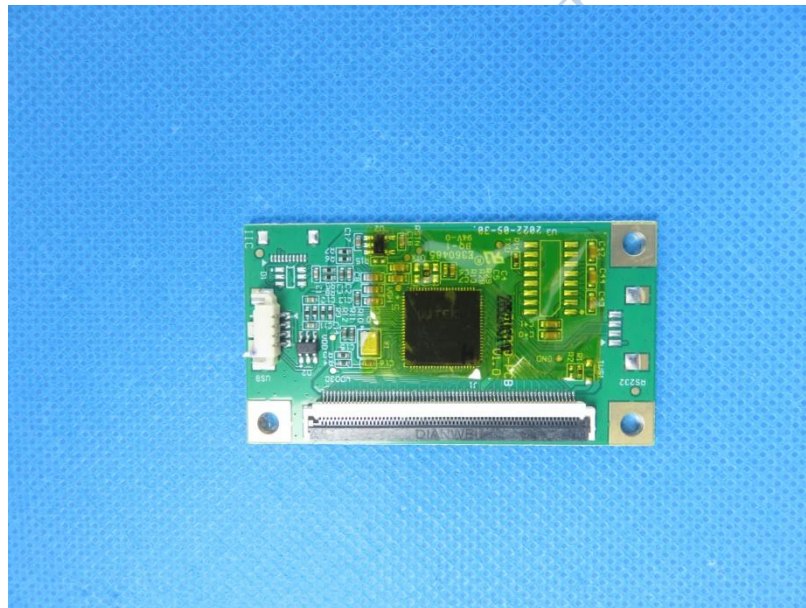


Fig.20



Fig.21



Fig.22

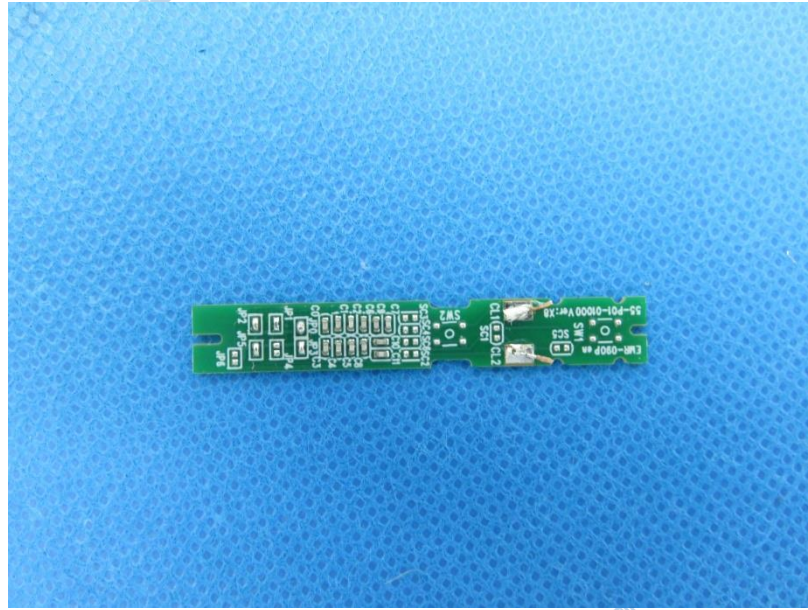


Fig.23

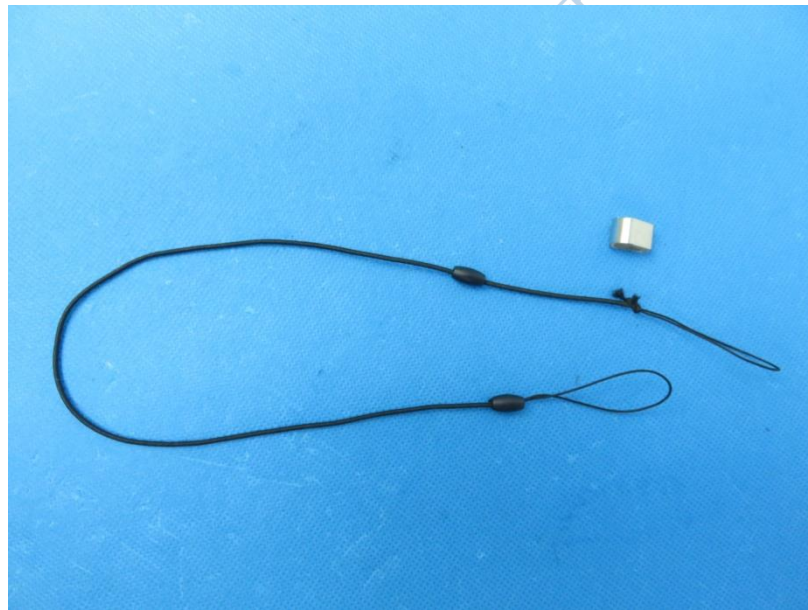


Fig.24

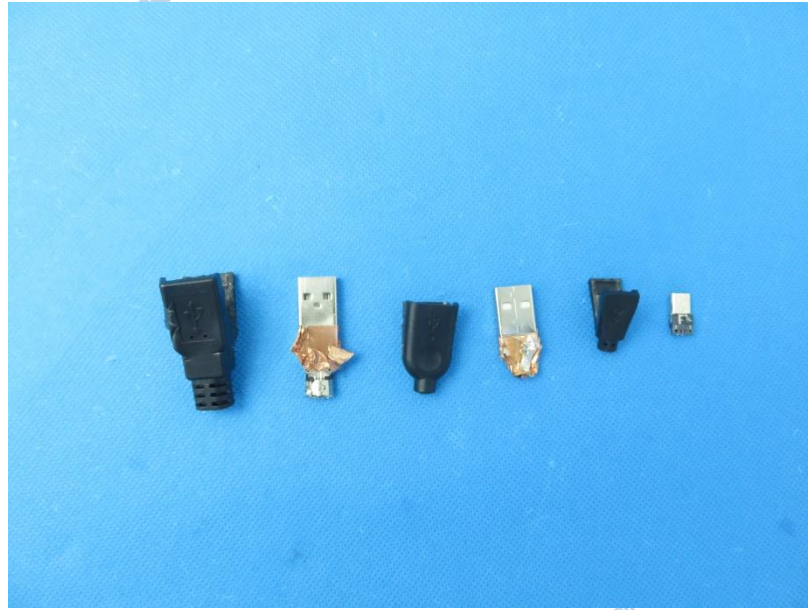


Fig.25



Fig.26



Fig.27(No.81)

****End of Report****

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