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检测
TESTING
CNAS L6478



TEST REPORT

Report No. : WTF25F06167114R1C
Job No. : FSW2506261279CJ
Applicant : Mid Ocean Brands B.V.
Address : Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Manufacturer : 114276
Sample Name : Solar hand crank radio torch
Sample Model : MO2746
Test Requested : With reference to EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863, to determine the Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content in the submitted sample.
Test Method : Refer to next page (s)
Test Conclusion : **Pass**
Date of Receipt Sample : 2025-06-26 & 2025-07-12 & 2025-07-24
Testing Period : 2025-06-26 to 2025-07-07 & 2025-07-12 to 2025-07-22 & 2025-07-24 to 2025-07-30
Date of Issue : 2025-07-30
Test Result : Refer to next page (s)

Prepared By:

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Signed for and on behalf of
Waltek Testing Group (Foshan) Co., Ltd.

Swing Liang



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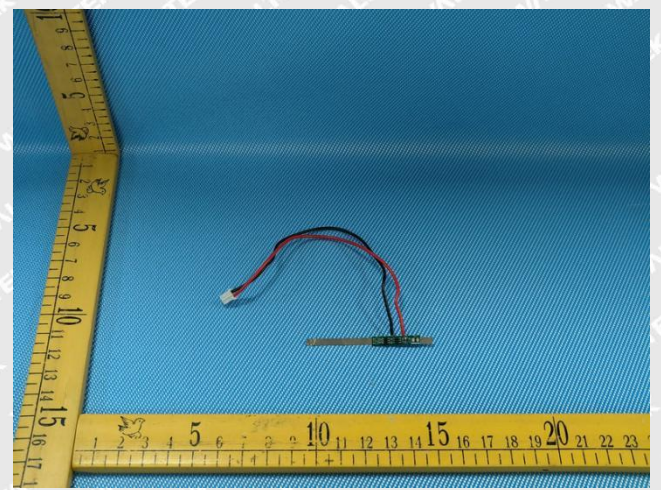
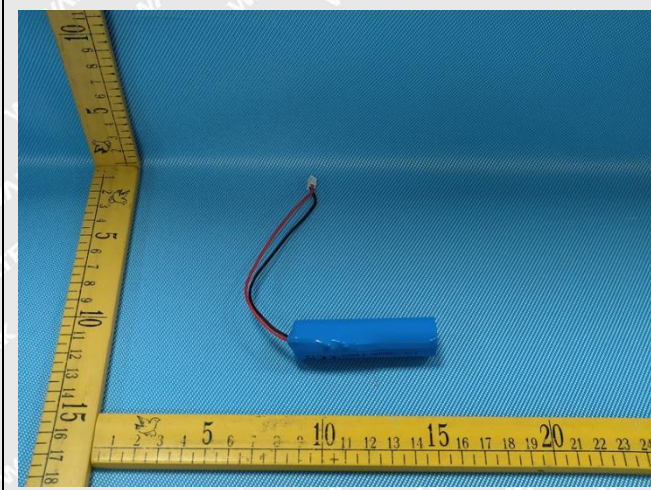
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Sample photo:





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Test Results:**1. Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs**

Test Method/Equipment:

- 1) With reference to IEC 62321-2:2021, disassembly, disjunction and mechanical sample preparation
- 2) With reference to IEC 62321-3-1:2013, screening –Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry
- 3) With reference to IEC 62321-4:2013+AMD1:2017 CSV, determination of Mercury by ICP-OES
- 4) With reference to IEC 62321-5:2013, determination of Lead and Cadmium by ICP-OES
- 5) With reference to IEC 62321-7-2: 2017 and IEC 62321-7-1: 2015, determination of Hexavalent Chromium by UV-Vis
- 6) With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS

Part No.	Part Description	Result of XRF					Result of Wet Chemical Testing (mg/kg)
		Cd	Pb	Hg	Cr	Br	
1	Black plastic shell	BL	BL	BL	BL	BL	NA
2	Transparent plastic sheet with black surface	BL	BL	BL	BL	BL	NA
3	Black plastic shell	BL	BL	BL	BL	BL	NA
4	Black plastic part	BL	BL	BL	BL	IN	PBBs: ND PBDEs: ND
5	Black plastic shell	BL	BL	BL	BL	BL	NA
6	Silvery metal screw with black surface	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
7	Black fabric wire	BL	BL	BL	BL	BL	NA
8	Black fabric wire	BL	BL	BL	BL	BL	NA
9	Black plastic shell	BL	BL	BL	BL	BL	NA
10	Black soft plastic button	BL	BL	BL	BL	BL	NA
11	Silvery metal shell	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
12	Transparent plastic shell	BL	BL	BL	BL	BL	NA
13	Silvery metal screw	BL	BL	BL	BL	--	NA



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Part No.	Part Description	Result of XRF					Result of Wet Chemical Testing (mg/kg)
		Cd	Pb	Hg	Cr	Br	
14	Black plastic shell	BL	BL	BL	BL	IN	PBBs: ND PBDEs: 163
15	Black plastic shell	BL	BL	BL	BL	IN	PBBs: ND PBDEs: 308
16	Silvery metal axle	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
17	Transparent plastic shell	BL	BL	BL	BL	BL	NA
18	Black soft plastic shell	BL	BL	BL	BL	BL	NA
19	Blue plastic film	BL	BL	BL	BL	BL	NA
20	Black sponge adhesive tape	BL	BL	BL	BL	BL	NA
21	Black plastic wire covering	BL	BL	BL	BL	BL	NA
22	Red plastic wire covering	BL	BL	BL	BL	BL	NA
23	Silvery metal wire	BL	BL	BL	BL	--	NA
24	White plastic shell(plug)	BL	BL	BL	BL	BL	NA
25	Silvery metal pin(plug)	BL	BL	BL	BL	--	NA
26	Red paper sheet with adhesive	BL	BL	BL	BL	BL	NA
27	Purple plastic film	BL	BL	BL	BL	BL	NA
28	White plastic gasket	BL	BL	BL	BL	BL	NA
29	White plastic part	BL	BL	BL	BL	BL	NA
30	Black dry glue	BL	BL	BL	BL	BL	NA
31	Black sponge sheet	BL	BL	BL	BL	BL	NA



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Part No.	Part Description	Result of XRF					Result of Wet Chemical Testing (mg/kg)
		Cd	Pb	Hg	Cr	Br	
32	Solder	BL	IN	BL	BL	--	Pb: 80
33	Yellow transparent dry glue	BL	BL	BL	BL	BL	NA
34	Silvery metal shell	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
35	Green PCB	BL	BL	BL	BL	BL	NA
36	Black plastic film	BL	BL	BL	BL	BL	NA
37	Black plastic rim	BL	BL	BL	BL	BL	NA
38	Coppery metal wire	BL	BL	BL	BL	--	NA
39	Brown paper shell	BL	BL	BL	BL	BL	NA
40	Silvery magnetic block	BL	BL	BL	IN	--	Cr ⁶⁺ : ND
41	Transparent dry glue	BL	BL	BL	BL	BL	NA
42	Black-green PCB	BL	BL	BL	BL	BL	NA
43	Green PCB	BL	BL	BL	BL	BL	NA
44	Black plastic shell with silvery plating	BL	BL	BL	BL	BL	NA
45	Transparent LED	BL	BL	BL	BL	BL	NA
46	Off-with plastic shell(socket)	BL	BL	BL	BL	BL	NA
47	silvery metal pin(socket)	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
48	Black plastic shell	BL	BL	BL	BL	BL	NA
49	Black plastic part(button)	BL	BL	BL	BL	BL	NA



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Part No.	Part Description	Result of XRF					Result of Wet Chemical Testing (mg/kg)
		Cd	Pb	Hg	Cr	Br	
50	Brown plastic sheet(button)	BL	BL	BL	BL	BL	NA
51	Silvery metal shell(button)	BL	BL	BL	BL	--	NA
52	Silvery metal sheet(button)	BL	BL	BL	BL	--	NA
53	Silvery metal spring(button)	BL	BL	BL	BL	--	NA
54	Silvery metal ball(button)	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
55	Chip IC	BL	BL	BL	BL	BL	NA
56	Black plastic core(socket)	BL	BL	BL	BL	BL	NA
57	Silvery metal shell(socket)	BL	BL	BL	BL	--	NA
58	Silvery metal pin(socket)	BL	BL	BL	BL	--	NA
59	Chip capacitor	BL	BL	BL	BL	BL	NA
60	Chip diode	BL	BL	BL	BL	BL	NA
61	Chip audion	BL	BL	BL	BL	BL	NA
62	Chip IC	BL	BL	BL	BL	BL	NA
63	Chip IC	BL	BL	BL	BL	BL	NA
64	Black plastic base(electrolytic capacitor)	BL	BL	BL	BL	BL	NA
65	Black rubber stopper(electrolytic capacitor)	BL	BL	BL	BL	BL	NA
66	Brown paper(electrolytic capacitor)	BL	BL	BL	BL	BL	NA
67	Silvery metal shell with black printing (electrolytic capacitor)	BL	BL	BL	BL	--	NA



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Part No.	Part Description	Result of XRF					Result of Wet Chemical Testing (mg/kg)
		Cd	Pb	Hg	Cr	Br	
68	Silvery metal pin(electrolytic capacitor)	BL	BL	BL	BL	--	NA
69	Grey metal foil(electrolytic capacitor)	BL	BL	BL	BL	--	NA
70	Silvery-grey metal foil(electrolytic capacitor)	BL	BL	BL	BL	--	NA
71	Chip resistor	BL	IN	BL	BL	BL	Pb:560
72	Coppery varnished wire(inductor)	BL	BL	BL	BL	BL	NA
73	Black magnetic core(inductor)	BL	BL	BL	IN	--	Cr ⁶⁺ : ND
74	Black plastic core(socket)	BL	BL	BL	BL	BL	NA
75	Silvery metal shell(socket)	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
76	Silvery metal pin(socket)	BL	BL	BL	BL	--	NA
77	Chip LED	BL	BL	BL	BL	BL	NA
78	Green PCB	BL	BL	BL	BL	BL	NA
79	Brown plastic sheet	BL	BL	BL	BL	BL	NA
80	Silvery metal part	BL	BL	BL	BL	--	NA
81	Black plastic shell	BL	BL	BL	BL	IN	PBBs: ND PBDEs: ND
82	Black-green PCB	BL	BL	BL	BL	IN	PBDEs: ND PBBs: ND
83	Silvery metal pin	BL	BL	BL	BL	--	NA
84	White plastic sheet	BL	BL	BL	BL	BL	NA
85	Silvery metal pin	BL	BL	BL	BL	--	NA



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Part No.	Part Description	Result of XRF					Result of Wet Chemical Testing (mg/kg)
		Cd	Pb	Hg	Cr	Br	
86	Silvery metal sheet	BL	BL	BL	BL	--	NA
87	Silvery metal sheet	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
88	Silvery crystal oscillator	BL	BL	BL	BL	BL	NA
89	Black plastic shell(button)	BL	BL	BL	BL	BL	NA
90	Silvery metal shell(button)	BL	BL	BL	BL	--	NA
91	Silvery metal sheet(button)	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
92	Coppery varnished wire with white glue	BL	BL	BL	BL	BL	NA
93	Black magnetic core	BL	BL	BL	BL	--	NA
94	Transparent plastic shell	BL	BL	BL	BL	BL	NA
95	White plastic shell	BL	BL	BL	BL	BL	NA
96	Transparent dry glue	BL	BL	BL	BL	BL	NA
97	Dark green paper sheet	BL	BL	BL	BL	BL	NA
98	Black plastic wire covering	BL	BL	BL	BL	BL	NA
99	Black plastic wire covering	BL	BL	BL	BL	BL	NA
100	Silvery metal shell	BL	BL	BL	BL	--	NA
101	Silvery metal shell	BL	BL	BL	BL	--	NA
102	Silvery metal terminal block	BL	BL	BL	BL	--	NA
103	Golden metal part	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative



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Part No.	Part Description	Result of XRF					Result of Wet Chemical Testing (mg/kg)
		Cd	Pb	Hg	Cr	Br	
104	Silvery metal bucket with black surface	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
105	Black plastic gasket	BL	BL	BL	BL	BL	NA
106	Dark silvery metal gear	BL	BL	BL	BL	--	NA
107	White plastic gear	BL	BL	BL	BL	BL	NA
108	Black plastic gasket	BL	BL	BL	BL	BL	NA
109	Brown dry glue	BL	BL	BL	BL	BL	NA
110	Silvery metal axle	BL	BL	BL	BL	--	NA
111	Black magnetic rim	BL	BL	BL	IN	--	Cr ⁶⁺ : ND
112	Copper varnished wire	BL	BL	BL	BL	BL	NA
113	Silvery metal axle	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
114	Silvery silicon steel sheet with green surface	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
115(R1)	Yellow transparent dry glue	BL	BL	BL	BL	BL	NA
116	Silvery metal part	BL	BL	BL	BL	--	NA
117	Black plastic wire jacket	BL	BL	BL	BL	BL	NA
118	Black plastic jacket(USB plug)	BL	BL	BL	BL	BL	NA
119	Silvery metal shell(USB plug)	BL	BL	BL	BL	--	NA
120	White plastic core(USB plug)	BL	BL	BL	BL	BL	NA
121	Silvery metal pin(USB plug)	BL	BL	BL	BL	--	NA



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Part No.	Part Description	Result of XRF					Result of Wet Chemical Testing (mg/kg)
		Cd	Pb	Hg	Cr	Br	
122	Solder(USB plug)	BL	BL	BL	BL	--	NA
123	Copper metal wire	BL	BL	BL	BL	--	NA
124	Red plastic wire covering	BL	BL	BL	BL	BL	NA
125	Black plastic wire covering	BL	BL	BL	BL	BL	NA
126	Silvery metal shell(Type-C plug)	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
127	Black plastic jacket(Type-C plug)	BL	BL	BL	BL	BL	NA
128	Solder(Type-C plug)	BL	BL	BL	BL	--	NA
129	Black plastic core(Type-C plug)	BL	BL	BL	BL	BL	NA
130	Silvery metal pin(Type-C plug)	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
131	Green PCB(Type-C plug)	BL	BL	BL	BL	IN	PBBs: ND PBDEs: ND
132	Green plastic shell	BL	BL	BL	BL	BL	NA
133	Silvery metal sheet	BL	BL	BL	BL	--	NA
134	Solder	BL	IN	BL	BL	--	Pb:96
135	Green PCB	BL	BL	BL	BL	IN	PBBs: ND PBDEs: ND
136	Chip IC	BL	BL	BL	BL	BL	NA
137	Chip resistor	BL	BL	BL	IN	BL	Cr ⁶⁺ : ND
138	Chip EC	BL	BL	BL	BL	BL	NA
139	Chip capacitor	BL	BL	BL	BL	BL	NA



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2. Phthalates

Test Method/Equipment:

1) With reference to IEC 62321-8:2017, determination of DBP, BBP, DEHP, DIBP by GC-MS

Serial No.	Part No.	Result (mg/kg)			
		DBP	BBP	DEHP	DIBP
T01	1+2+3+4+5 [△]	ND	ND	ND	ND
T02	7+8 [△]	ND	ND	ND	ND
T03	9+12+14+15+17 [△]	ND	ND	ND	ND
T04	10+18+21 [△]	ND	ND	ND	ND
T05	19+27+36 [△]	ND	ND	ND	ND
T06	20	ND	ND	ND	ND
T07	22+65+98 [△]	162	ND	ND	ND
T08	24+28+29+37+44 [△]	ND	ND	ND	ND
T09	26+39+66+97 [△]	ND	ND	ND	ND
T10	30+33+41+96+109 [△]	153	ND	ND	ND
T11	31	ND	ND	ND	ND
T12	35+42+43+78+131 [△]	ND	ND	ND	ND
T13	45+46+48+49+50 [△]	ND	ND	ND	ND
T14	55+59+60+61+62 [△]	ND	ND	ND	ND
T15	56+64+74+79+81 [△]	ND	ND	ND	ND
T16	63+71+77+88 [△]	ND	ND	ND	ND
T17	72+92+112 [△]	ND	ND	ND	ND
T18	82	ND	ND	ND	ND
T19	84+89+94+95+105 [△]	ND	ND	ND	ND
T20	99+117+118 [△]	ND	ND	ND	ND
T21	107+108+120+129+132 [△]	ND	ND	ND	ND
T22	115(R1)	ND	ND	ND	ND
T23	124+125+127 [△]	ND	ND	ND	ND
T24	6	--	--	--	--
T25	11	--	--	--	--
T26	13	--	--	--	--
T27	16	--	--	--	--
T28	23	--	--	--	--
T29	25	--	--	--	--
T30	32	--	--	--	--
T31	34	--	--	--	--
T32	38	--	--	--	--
T33	40	--	--	--	--
T34	47	--	--	--	--
T35	51	--	--	--	--



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Serial No.	Part No.	Result (mg/kg)			
		DBP	BBP	DEHP	DIBP
T36	52	--	--	--	--
T37	53	--	--	--	--
T38	54	--	--	--	--
T39	57	--	--	--	--
T40	58	--	--	--	--
T41	67	--	--	--	--
T42	68	--	--	--	--
T43	69	--	--	--	--
T44	70	--	--	--	--
T45	73	--	--	--	--
T46	75	--	--	--	--
T47	76	--	--	--	--
T48	80	--	--	--	--
T49	83	--	--	--	--
T50	85	--	--	--	--
T51	86	--	--	--	--
T52	87	--	--	--	--
T53	90	--	--	--	--
T54	91	--	--	--	--
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T56	100	--	--	--	--
T57	101	--	--	--	--
T58	102	--	--	--	--
T59	103	--	--	--	--
T60	104	--	--	--	--
T61	106	--	--	--	--
T62	110	--	--	--	--
T63	111	--	--	--	--
T64	113	--	--	--	--
T65	114	--	--	--	--
T66	116	--	--	--	--
T67	119	--	--	--	--
T68	121	--	--	--	--
T69	122	--	--	--	--
T70	123	--	--	--	--
T71	126	--	--	--	--



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Serial No.	Part No.	Result (mg/kg)			
		DBP	BBP	DEHP	DIBP
T72	128	--	--	--	--
T73	130	--	--	--	--
T74	135	ND	ND	ND	ND
T75	136+137+138+139 [△]	ND	ND	ND	ND
T76	133	--	--	--	--
T77	134	--	--	--	--

Remark:

- (1) Results are obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for Cr⁶⁺) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1: 2013 (unit: mg/kg)

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

BL= Below Limit

OL= Over Limit

LOD = Limit of Detection

- (2) "IN" expresses the inconclusive region, and further chemical testing to confirm whether it complies with the requirement of RoHS Directive.
- (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) mg/kg =milligram per kilogram=ppm, $\mu\text{g}/\text{cm}^2$ = Micrograms per square centimetre.
- (5) ND = Not Detected or lower than limit of quantitation.
- (6) NA = Not Applicable, as the XRF screening test result was below the limit or as the XRF screening directly determine that test result was over the limit, it was not need to conduct the wet chemical testing.
- (7) -- = Not Regulated
- (8) LOQ = Limit of quantitation.

Test Items	Pb	Cd	Hg	Cr ⁶⁺		PBB	PBDE	DBP	BBP	DEHP	DIBP
Units	mg/kg	mg/kg	mg/kg	mg/kg	$\mu\text{g}/\text{cm}^2$	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOQ	2	2	2	8	0.1	5	5	50	50	50	50



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The LOQ for single compound of PBBs and PBDEs is 5mg/kg, LOQ of Cr^{6+} for polymer and composite sample is 8mg/kg and LOQ of Cr^{6+} for metal sample is $0.1\mu\text{g}/\text{cm}^2$.

- (9) According to IEC 62321-7-1:2015, determined of Cr^{6+} on metal sample by boiling water extraction test method, and result is shown as Positive/Negative.

Boiling water extraction:

Negative = Absence of Cr^{6+} coating, the detected concentration in boiling water extraction solution is less than $0.10\mu\text{g}/\text{cm}^2$.

Positive = Presence of Cr^{6+} coating, the detected concentration in boiling water extraction solution is greater than $0.13\mu\text{g}/\text{cm}^2$.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr^{6+} results represent status of the sample at the time of testing.

(10) RoHS Requirement

Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr^{6+})	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)
Dibutyl phthalate (DBP)	0.1% (1000 mg/kg)
Benzyl butyl phthalate (BBP)	0.1% (1000 mg/kg)
Di(2-ethylhexyl) phthalate (DEHP)	0.1% (1000 mg/kg)
Di-iso-butyl phthalate (DIBP)	0.1% (1000 mg/kg)

(11) Abbreviation:

"Pb" denotes Lead, "Cd" denotes Cadmium, "Hg" denotes Mercury, "Cr" denotes Chromium, " Cr^{6+} " denotes Hexavalent Chromium, "Br" denotes Bromine, "PBBs" denotes Total Polybrominated Biphenyls, "PBDEs" denotes Total Polybrominated Diphenyl Ethers.

"DBP" denotes Dibutyl phthalate, "BBP" denotes Benzyl butyl phthalate (BBP), "DEHP" denotes Bis(2-ethylhexyl)-phthalate, "DIBP" denotes Diisobutyl phthalate, "PHT" denotes Phthalates.

- (12) " Δ "=As per applicant's requirement, the testing was conducted based on mixed components by weight in equal ratio, results are calculated by the minimum weight of mixed components.

- (13) For specimen 115(R1): The result(s) was(were) based on the wet weight of the raw material.

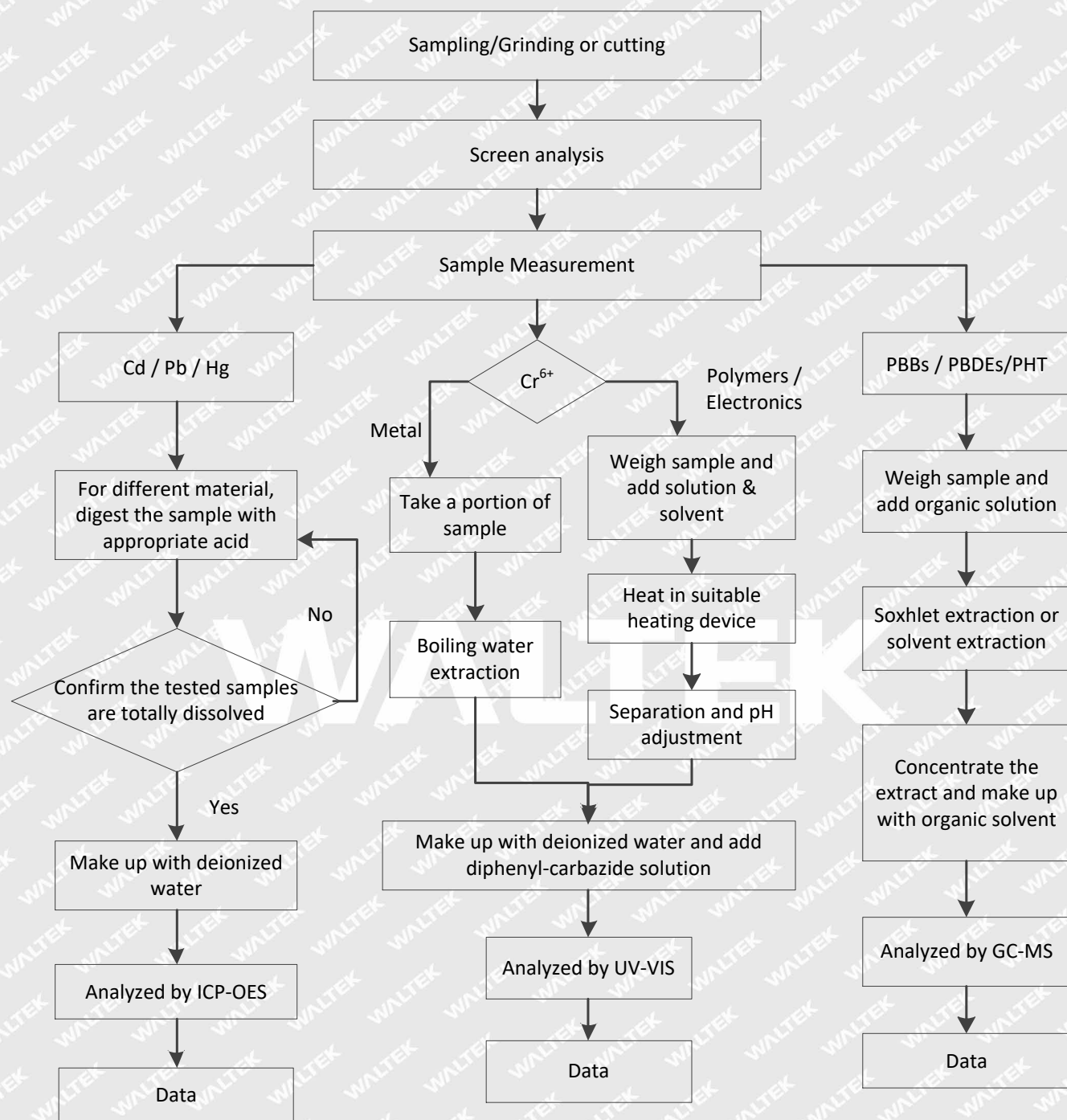
- (14) As per client's requirement, results of specimen No.1 to No.132 are quoted from report No.WTF25F06167114C specimen No.1 to No.132.



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Testing Flow chart:

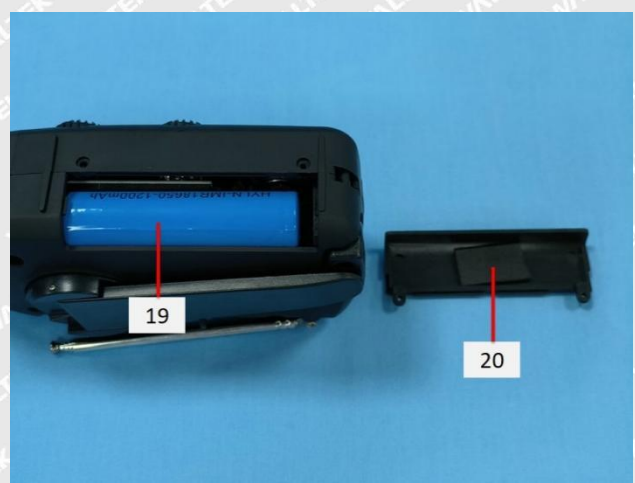




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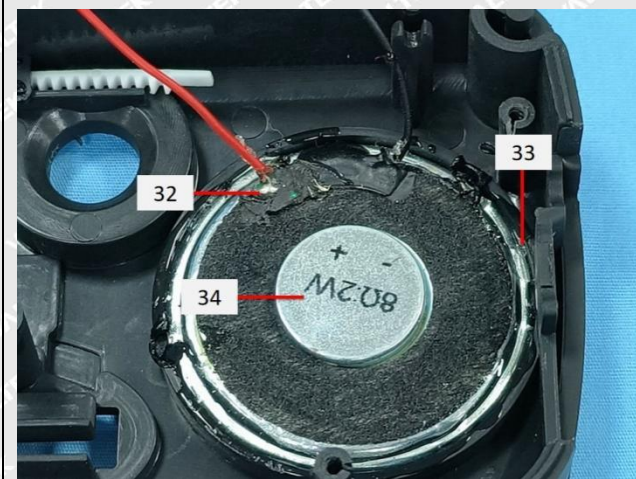
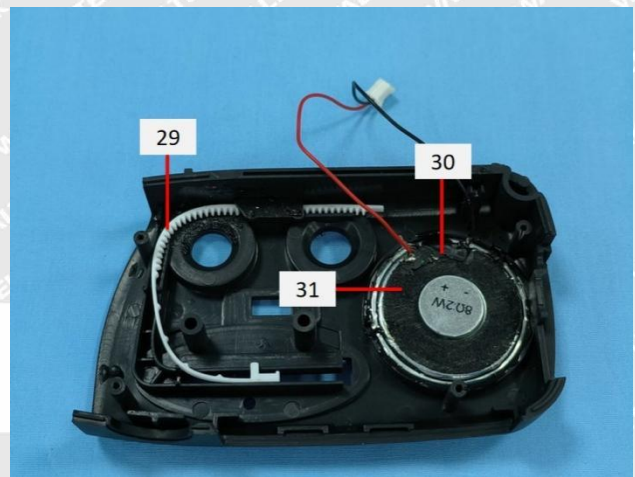
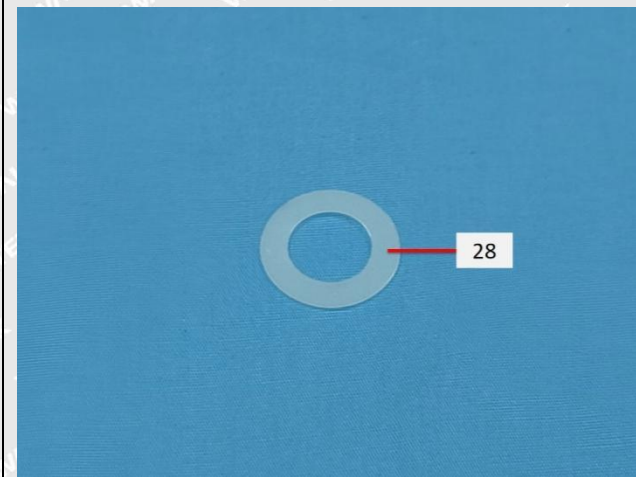
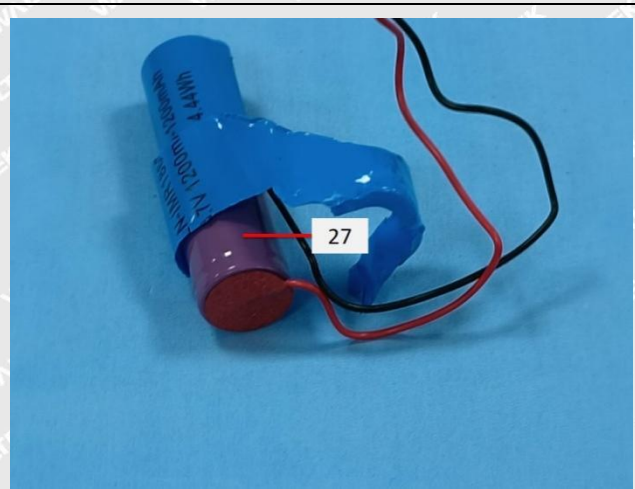
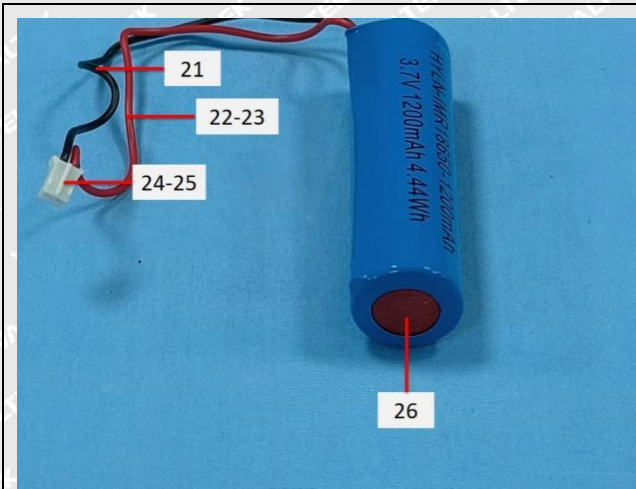
Photograph of parts tested:





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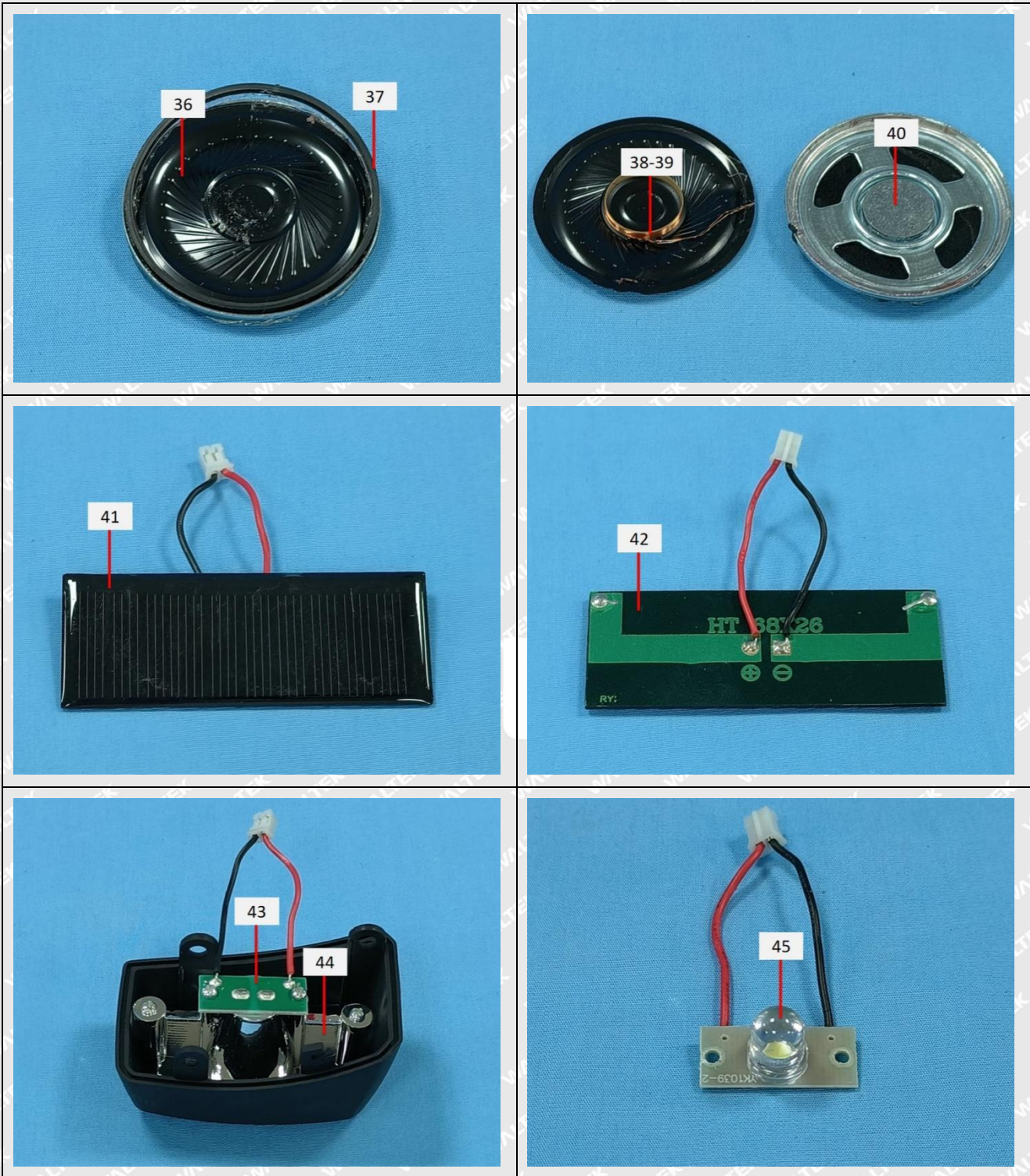
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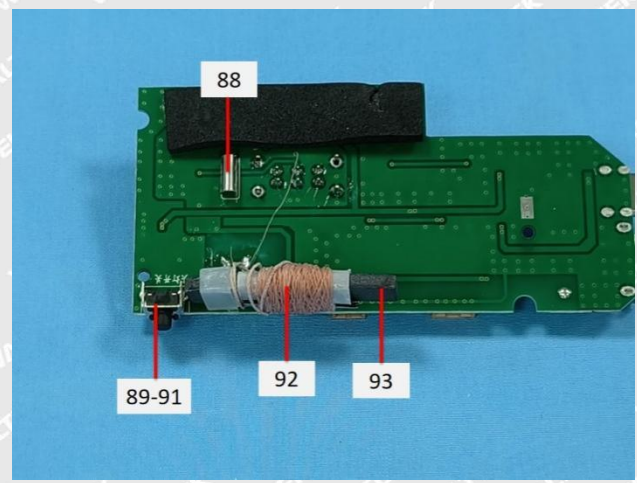
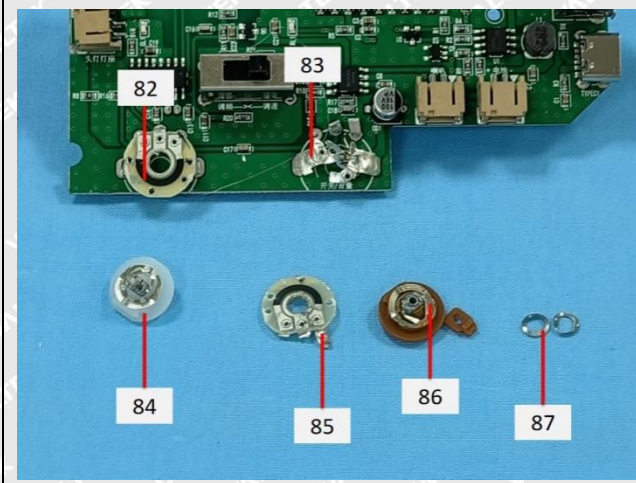
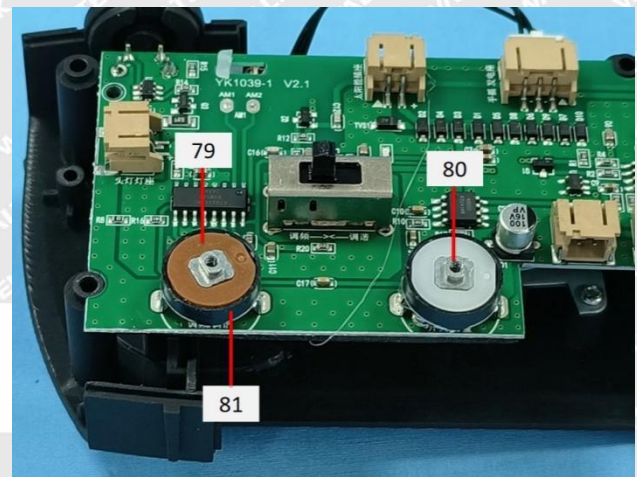
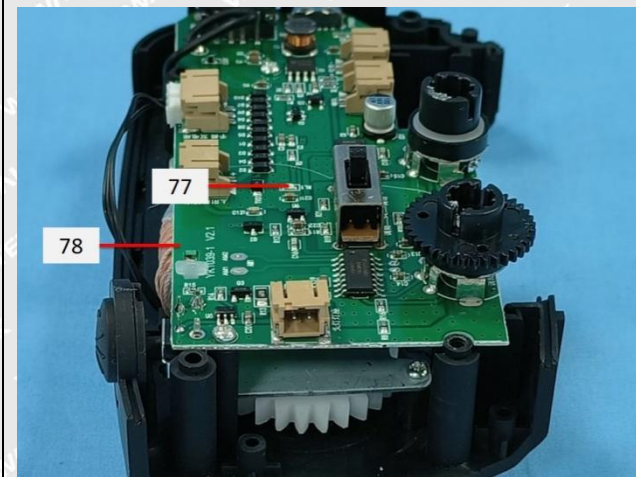
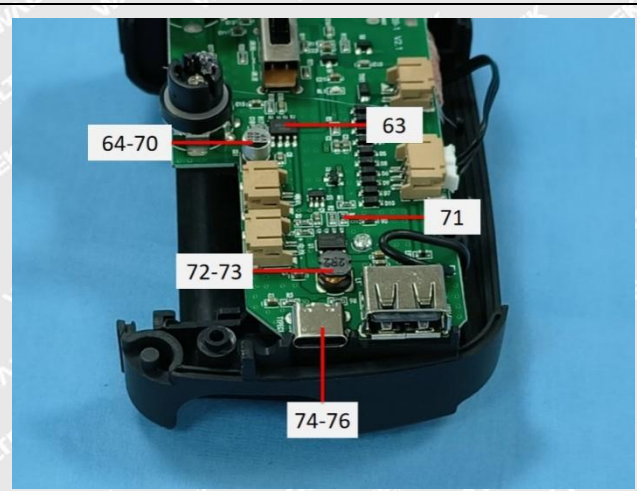
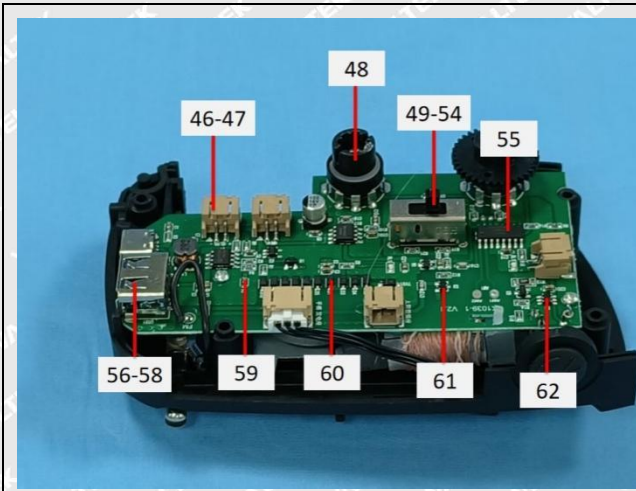
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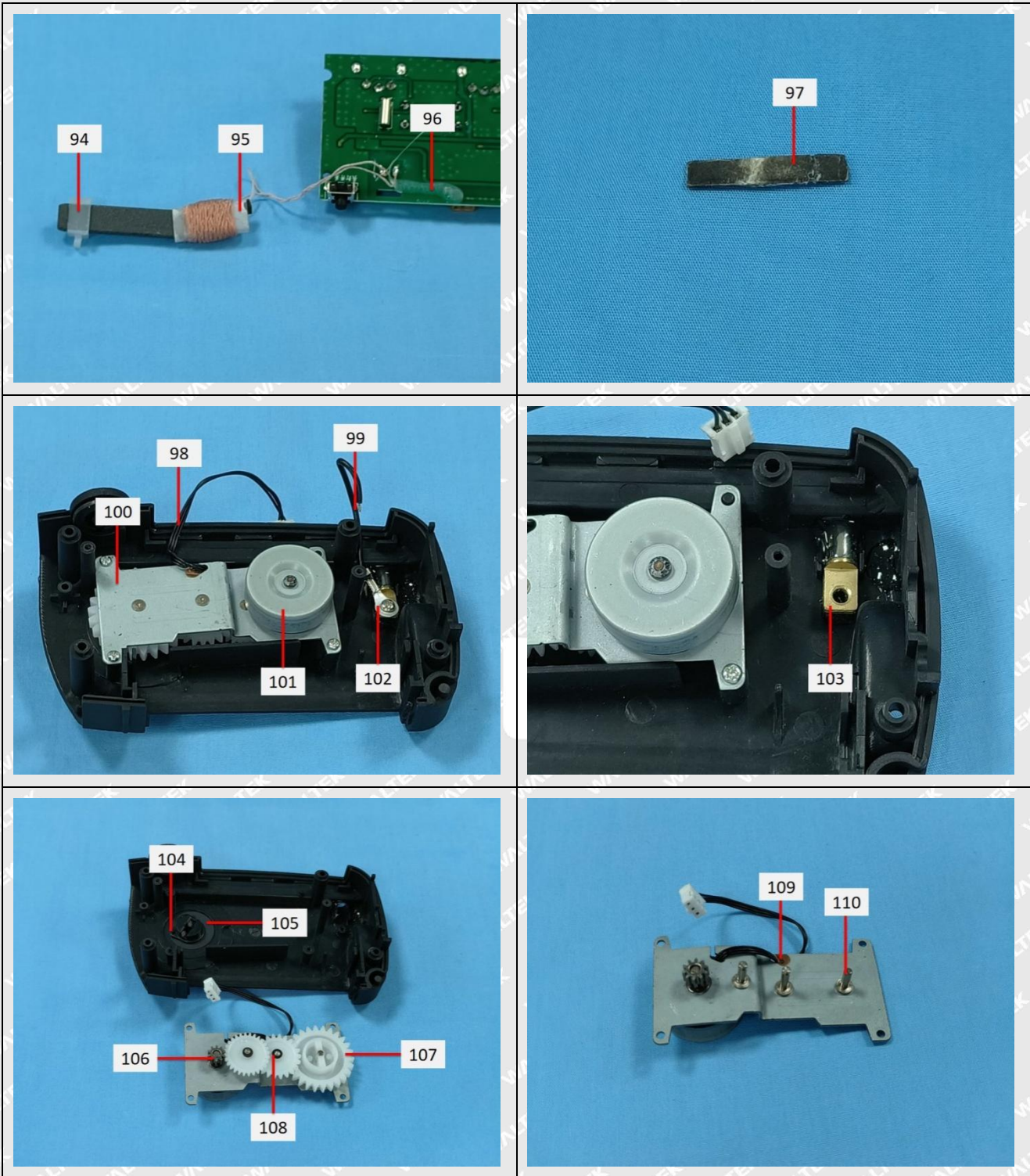
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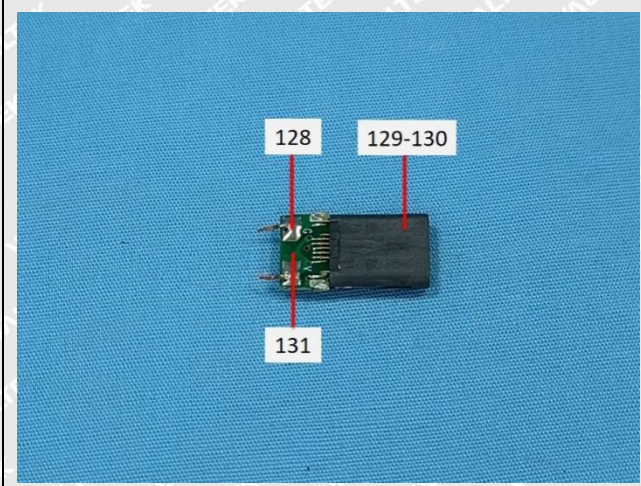
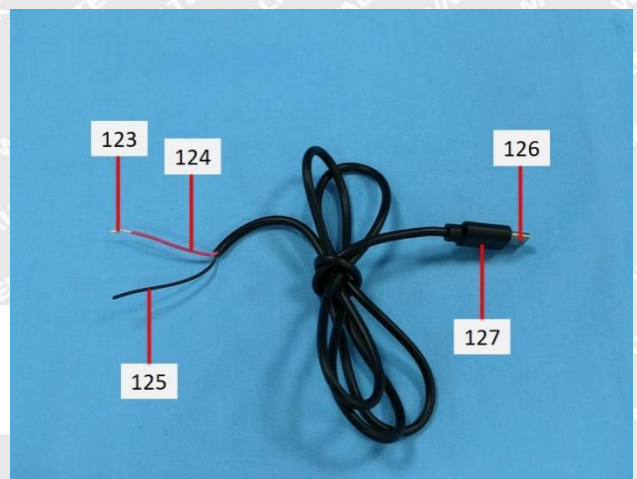
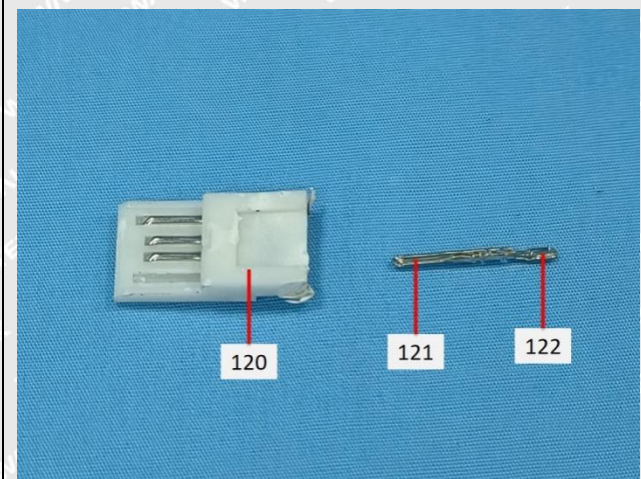
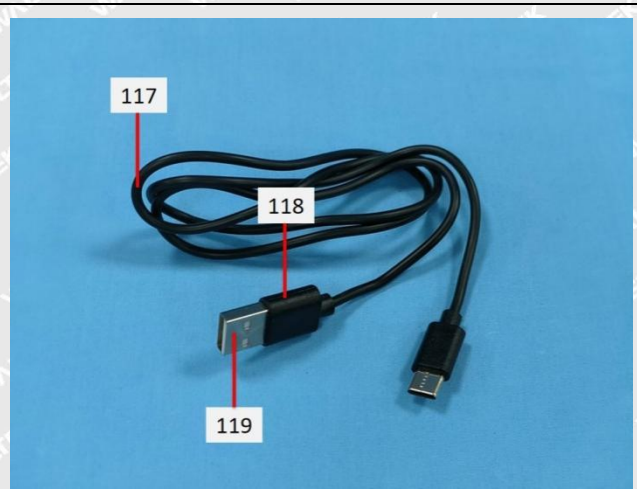
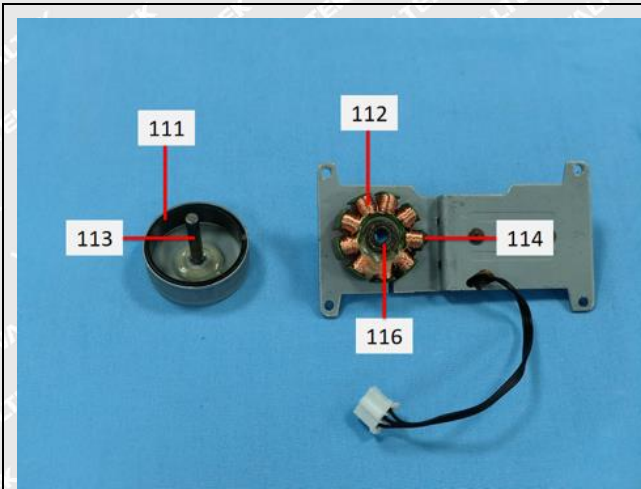
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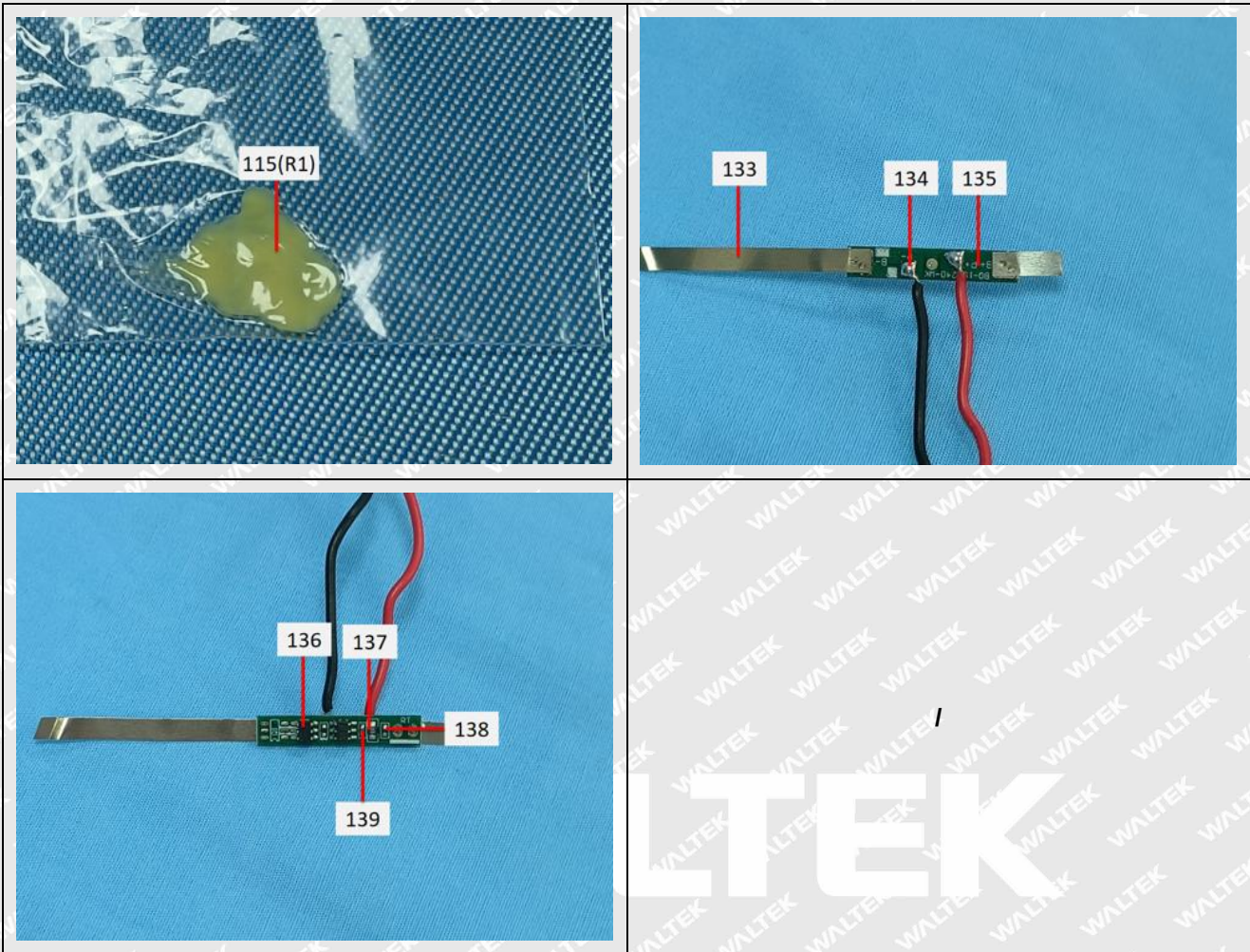
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===== End of Report =====

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