



中国认可  
国际互认  
检测  
TESTING  
CNAS L5950

## Test Report

No.:SPF20034619

Date: Oct. 12, 2020

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SHENZHEN FEIJIADA TECHNOLOGY CO., LTD.

428, BLDG. 2, JINFANGHUA E-COMMERCE INDUSTRIAL PARK, NO. 450 BULONG ROAD, BANTIAN ST.,  
LONGGANG DISTRICT, SHENZHEN, CHINA (MAINLAND)

The following samples were submitted and identified by/on behalf of client as:

Name of product/item : REMOTE CONTROL AIRCRAFT SERIES

Item No. : JD-22, JD-22S, JD-23, JD-23S, JD-25, JD-25S, JD-26, JD-26S, JD-27, JD-27S, JD-28, JD-28S,  
JD-29, JD-29S, JD-30, JD-30S, E020, E021, E021S, E022, E022S, E38, E58, E58 PRO, E61, E61H, E61HW,  
E65H, E65HW, E511, E511S, E520, E520S, E520S PRO, E530, E530S, E68, E69, E610, E540, E540S, EX5,  
EX5 PRO, EX6, EX7, FX1, FX2, FX10, F111, F40, F41, F540, F540S, JY025, JY026, JY028, JY029, S161,  
S162, S163, S165, S166, S167, S168, S169, S171, S172, S173, S175, S176, S177, S178, S179, S186, S188,  
S189, S199

Sample received date: Sep. 09, 2020

Testing period: From Sep. 09, 2020 to Oct. 12, 2020

Test conclusion:

Summary

Result

According to RoHS Directive 2011/65/EU with amendment Directive 2015/863/EU to test Lead (Pb),  
Cadmium (Cd), Mercury (Hg), Hexavalent chromium (Cr(VI)), Polybrominated biphenyls (PBBs),  
Polybrominated diphenylethers (PBDEs) , Phthalates (DBP, BBP, DEHP, DIBP) in the tested materials  
of the submitted sample(s).

Pass

Tested by :

*Potter*

Zhang PeiXun, Potter

Inspected by :

*Lin*

Lin JiaSheng, Lin

Approved by :

*Jee*

Zhang Feng, Jee  
Lab Manager



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## 1. Summary of permissible limits of requirements:

RoHS Restricted substances	Maximum concentration value (By weight in homogeneous materials)
Lead (Pb)	1000 mg/kg
Cadmium (Cd)	100 mg/kg
Mercury (Hg)	1000 mg/kg
Hexavalent chromium (Cr(VI))	1000 mg/kg
Polybrominated biphenyls (PBBs)	1000 mg/kg
Polybrominated diphenylethers (PBDEs)	1000 mg/kg
Bis(2-ethylhexyl) phthalate (DEHP)	1000 mg/kg
Butyl benzyl phthalate (BBP)	1000 mg/kg
Dibutyl phthalate (DBP)	1000 mg/kg
Diisobutyl phthalate (DIBP)	1000 mg/kg

### 1.1 XRF screening limits in mg/kg for regulated elements in various matrices:

Element	Non-metal (Polymers material) (Unit: mg/kg)	Metals (Unit: mg/kg)	Composite material (Unit: mg/kg)
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	BL<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<(250-3σ)< X	NA	BL<(250-3σ)< X

#### Note:

- (1) Screening results of XRF are for primary screening, and further chemical testing by wet chemical are to be performed if the concentration exceeds the below warning value.
- (2) The XRF results show the total Br content, the restricted substances are PBBs and PBDEs.  
The XRF results show the total Cr content, the restricted substance are Cr(VI).
- (3) The measurement data is located in the BL area, and the result is qualified. Located in the X and OL areas, the results are uncertain and require further testing.

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### 1.2 Estimated detection limits in mg/kg for regulated elements in various matrices:

Element	Non-metal (Polymers material) (Unit: mg/kg)	Metals (Unit: mg/kg)	Composite material (Unit: mg/kg)
Pb	100	200	200
Cd	50	70	70
Hg	100	200	200
Cr	100	200	200
Br	200	NA	200

### 1.3 Chemical test content:

Test item	Test method	Instrument	Report limit
Lead (Pb)	IEC 62321-5:2013	ICP-OES	10 mg/kg
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	10 mg/kg
Mercury (Hg)	IEC 62321-4:2013+A1:2017	ICP-OES	10 mg/kg
Hexavalent chromium (Cr(VI))	IEC 62321-7-2:2017 (Non-metal)	UV-Vis	10 mg/kg
	IEC 62321-7-1:2015 (Metal)	UV-Vis	0.10 ( $\mu\text{g}/\text{cm}^2$ ) See remark
Polybrominated biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	50 mg/kg
Polybrominated diphenyl ethers (PBDEs)	IEC 62321-6:2015	GC-MS	50 mg/kg
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS	150 mg/kg

#### Remark:

- (1) Negative = The Cr(VI) concentration is below  $0.10 (\mu\text{g}/\text{cm}^2)$ . The coating is considered a non-Cr(VI) based coating.
- (2) Positive = The Cr(VI) concentration is above  $0.13 (\mu\text{g}/\text{cm}^2)$  and the statistical margin of error. The coating is considered to contain Cr(VI).
- (3) Inconclusive = The Cr(VI) concentration is between the value of  $0.10 (\mu\text{g}/\text{cm}^2)$  to  $0.13 (\mu\text{g}/\text{cm}^2)$ . Unavoidable coating variations may influence the determination. Additional 3 trials should be tested, use the averaged result of the 3 trials for the final determination.
- (4) Storage conditions and production date of the tested sample are unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.
- (5) Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as conflict with RoHS requirement. Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as no conflict with RoHS requirement.

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### 2. Restriction of Hazardous Substances (RoHS) analysis:

#### 2.1 Tested component(s):

Code	Components	Color and Materials
1-110: Main parts		
1	Airfoil	Black plastic
2	Shell	Blue transparent plastic
3	Shell	Red transparent plastic
4	Shell	Gray plastic
5	On shell	White coating
6	Foot pad	Black soft plastic
7	Hinge	White plastic
8	Hinge	Silvery metal
9	Interior	Black sticker
10	Screw	Black metal
11	LED	Transparent plastic
12	Pin (LED)	Silvery metal
13	Solder (LED)	Silvery metal
14	Thin wire skin (LED)	Black plastic
15	Wire skin (LED)	Black plastic
16	Wire skin (LED)	Red plastic
17	Wire jacket	White fabric
18	Wire skin	Orange red plastic
19	Wire skin	White plastic
20	Wire skin	Black plastic
21	Wire skin	Yellow plastic
22	Wire skin	Black plastic
23	Wire skin	Red plastic
24	Wire skin	White plastic
25	Thin wire skin	Black plastic
26	Wire skin	Black plastic
27	Wire skin	Red plastic
28	Wire skin	White plastic
29	Shell (FPC Connector)	Red plastic
30	Shell (FPC Connector)	White plastic
31	Fastener	Black plastic
32	Conducting strip	Coppery metal
33	Shell (protective tube)	Black plastic

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Code	Components	Color and Materials
34	Shell (protective tube)	Silvery metal
35	Wire skin (protective tube)	Black plastic
36	Wire skin (protective tube)	Transparent plastic
37	Wire core (protective tube)	Silvery metal
38	Terminal (protective tube)	Coppery metal
39	Solder (GPS)	Silvery metal
40	GPS	Orange mixtures
41	Protective case (components)	Silvery metal
42	Wafer (battery compartment) (GPS)	Silvery metal
43	Copper foil (PCB) (GPS)	Coppery metal
44	PCB (GPS)	Blue mixtures
45	SMD LED	White mixtures
46	PCB	Red mixtures
47	Shell (FPC Connector)	Beige plastic
48	Shell (FPC Connector)	Black plastic
49	Coil (inductance)	Coppery metal
50	Magnetic core (inductance)	Black metal
51	Pedestal (button)	Black plastic
52	Pin (button)	Silvery metal
53	Metal dome (button)	Coppery metal
54	Fastener (button)	Silvery metal
55	Button	Black plastic
56	On PCB	Yellow solid glue
57	On PCB	White hot melt adhesive
58	SMD Crystal	Silvery mixtures
59	SMD Resistance	Black mixtures
60	SMD Triode	Black mixtures
61	Screw	Coppery metal
62	MLCC	Brown mixtures
63	SMD IC	Black mixtures
64	SMD Diode	Black mixtures
65	Components	Black mixtures
66	Components (fk0149w4)	Black mixtures
67	On PCB	Sticker
68	Copper foil (PCB)	Coppery metal

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Code	Components	Color and Materials
69	PCB	Green mixtures
70	Solder (PCB)	Silvery metal
71	On camera	Black EVA
72	Fastener (camera)	Black plastic
73	Camera lens	Transparent glass
74	Sensory components	Silvery mixtures
75	FPC (camera)	Golden mixtures
76	Shell (motor)	Silvery metal
77	Magnetic core (motor)	Silvery metal
78	Coil (motor)	Coppery metal
79	Bearing (motor)	Silvery metal
80	Shaft (motor)	Silvery metal
81	On shell (lens)	Black EVA
82	Shell (lens)	Black metal
83	In lens	Transparent glass
84	Sensory components (lens)	Black mixtures
85	In lens	Coppery metal
86	In lens	Transparent glass
87	Fastener (lens)	Black plastic
88	Gear (lens)	Ivory white plastic
89	Shaft (lens)	Coppery metal
90	Shell (lens)	Black plastic
91	FPC (lens)	Black mixtures
92	In lens	Black plastic
93	Solder	Silvery metal
94	Pin	Silvery metal
95	Gasket	Silvery metal
96	Wire skin (motor)	Red plastic
97	Wire core	Silvery metal
98	Wire skin (motor)	Orange red plastic
99	Wire skin (motor)	Blue plastic
100	Shell (motor)	Silvery metal
101	Shaft	Silvery metal
102	In motor	Brown plastic

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Code	Components	Color and Materials
103	Magnetic core	Silvery metal
104	Bearing	Coppery metal
105	Components	Black mixtures
106	PCB	Green mixtures
107	Solder	Silvery metal
108	Wire skin	Black plastic
109	Wire core	Silvery metal
110	Spring	Silvery metal
111-150: Remote control		
111	In remote control	Silvery metal
112	Shell (joystick)	Black plastic with white coating
113	Shell (joystick)	Silvery metal
114	Shell (joystick)	Black plastic
115	In joystick	White plastic
116	Spring (in joystick)	Black metal
117	In joystick	Coppery metal
118	Joystick	Silvery metal
119	In joystick	Ivory white plastic
120	In joystick	Green plastic
121	In joystick	Dark green plastic
122	In joystick	Black plastic
123	Shell (switch)	Silvery metal
124	Slider (switch)	Silvery metal
125	Spring (switch)	Silvery metal
126	Pin (switch)	Silvery metal
127	Fastener (switch)	Brown mixtures
128	Switch	Black plastic
129	LED	Transparent plastic
130	Pin (LED)	Silvery metal
131	Pin (wave crest diode)	Silvery metal
132	Wave crest diode	Black mixtures
133	Wire skin	Black plastic
134	Wire skin	Red plastic
135	Shell (buzzer)	Black plastic
136	Metal dome (buzzer)	Silvery metal

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Code	Components	Color and Materials
137	Magnetic core (buzzer)	Silvery metal
138	Coil (buzzer)	Coppery metal
139	Shaft (buzzer)	Silvery metal
140	PCB (buzzer)	Green mixtures
141	PCB	Green mixtures
142	Solder	Silvery metal
143	Wire skin	Black plastic
144	Wire skin	White plastic
145	Wire skin	Green plastic
146	Shell (USB)	Silvery metal
147	Pin	Coppery metal
148	Fastener (USB)	White plastic
149	Fastener (socket)	Black plastic
150	Shell (socket)	Silvery metal

## 2.2 Screening test by XRF spectroscopy analysis:

With reference to IEC 62321-3-1:2013, by X-ray fluorescence spectrometry analysis.

Sample No. Item(s)	XRF Result (mg/kg)									
	1	2	3	4	5	6	7	8	9	10
Pb	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	X	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cr	BL	BL	BL	BL	X	BL	BL	BL	BL	BL
Br	BL	BL	BL	BL	BL	BL	BL	NA	BL	NA

Sample No. Item(s)	XRF Result (mg/kg)									
	11	12	13	14	15	16	17	18	19	20
Pb	BL	OL	OL	OL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	OL	BL	X	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cr	X	BL	BL	BL	BL	X	BL	BL	BL	BL
Br	X	NA	NA	BL						

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Sample No. Item(s)	XRF Result (mg/kg)									
	21	22	23	24	25	26	27	28	29	30
Pb	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cd	X	BL								
Hg	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cr	BL	BL	BL	X	X	X	X	X	BL	BL
Br	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL

Sample No. Item(s)	XRF Result (mg/kg)									
	31	32	33	34	35	36	37	38	39	40
Pb	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cr	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Br	X	NA	BL	NA	BL	BL	NA	NA	NA	BL

Sample No. Item(s)	XRF Result (mg/kg)									
	41	42	43	44	45	46	47	48	49	50
Pb	BL	BL	BL	BL	OL	OL	BL	BL	BL	BL
Cd	OL	X	BL	BL	BL	BL	OL	X	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cr	BL	X	BL							
Br	NA	NA	NA	X	X	X	X	BL	NA	NA

Sample No. Item(s)	XRF Result (mg/kg)									
	51	52	53	54	55	56	57	58	59	60
Pb	BL	OL	BL	BL	BL	BL	OL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	X	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cr	BL	BL	BL	BL	BL	X	BL	BL	BL	BL
Br	BL	NA	NA	NA	BL	BL	X	X	X	X

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Sample No. Item(s)	XRF Result (mg/kg)									
	61	62	63	64	65	66	67	68	69	70
Pb	BL	BL	BL	X	X	BL	BL	BL	BL	OL
Cd	OL	BL								
Hg	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cr	X	BL								
Br	NA	X	X	X	X	X	X	NA	X	NA

Sample No. Item(s)	XRF Result (mg/kg)									
	71	72	73	74	75	76	77	78	79	80
Pb	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL	X	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cr	BL	BL	BL	X	BL	X	BL	X	X	X
Br	BL	BL	BL	BL	BL	NA	NA	NA	NA	NA

Sample No. Item(s)	XRF Result (mg/kg)									
	81	82	83	84	85	86	87	88	89	90
Pb	BL	BL	BL	BL	OL	BL	BL	BL	OL	BL
Cd	BL	BL	BL	X	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cr	X	BL	BL	X	BL	X	X	BL	BL	BL
Br	BL	NA	BL	BL	NA	BL	BL	BL	NA	BL

Sample No. Item(s)	XRF Result (mg/kg)									
	91	92	93	94	95	96	97	98	99	100
Pb	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	X	X	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cr	BL	BL	BL	BL	BL	BL	BL	X	BL	BL
Br	BL	X	NA	NA	NA	BL	NA	BL	BL	NA

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Sample No. Item(s)	XRF Result (mg/kg)									
	101	102	103	104	105	106	107	108	109	110
Pb	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	OL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cr	BL	X	BL	X	BL	BL	BL	BL	BL	BL
Br	NA	BL	NA	NA	X	X	NA	BL	NA	NA

Sample No. Item(s)	XRF Result (mg/kg)									
	111	112	113	114	115	116	117	118	119	120
Pb	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	X	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cr	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Br	NA	BL	NA	BL	BL	NA	NA	NA	BL	BL

Sample No. Item(s)	XRF Result (mg/kg)									
	121	122	123	124	125	126	127	128	129	130
Pb	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cr	BL	BL	X	BL						
Br	BL	BL	NA	NA	NA	NA	BL	BL	X	NA

Sample No. Item(s)	XRF Result (mg/kg)									
	131	132	133	134	135	136	137	138	139	140
Pb	BL	BL	BL	BL	BL	BL	BL	BL	BL	OL
Cd	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cr	BL	BL	X	BL						
Br	NA	BL	BL	BL	X	NA	NA	NA	NA	BL

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Sample No. Item(s)	XRF Result (mg/kg)									
	141	142	143	144	145	146	147	148	149	150
Pb	OL	OL	BL							
Cd	BL	BL	BL	BL	X	BL	X	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL
Cr	BL	BL	X	X	X	BL	BL	BL	BL	BL
Br	BL	NA	BL	BL	BL	NA	NA	BL	BL	NA

### 2.3 Test result for chemical confirmation analysis:

Sample No. Item(s)	Result (mg/kg)								
	12	13	14	45	46	52	57	64	
Pb	ND.	153	ND.	ND.	ND.	ND.	ND.	ND.	

Sample No. Item(s)	Result (mg/kg)							
	65	70	85	89 <sup>[1]</sup>	140	141	142	
Pb	ND.	153	ND.	$1.90 \times 10^4$	ND.	ND.	ND.	

Remark: “[1]”: According to the directive (2011/65/EU) the fourth part first, lead in copper alloy allows content of 4%.

Sample No. Item(s)	Result (mg/kg)								
	7	14	16	21	41	42	47	48	57
Cd	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.

Sample No. Item(s)	Result (mg/kg)								
	61	79	84	93	94	107	116	145	147
Cd	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.

Sample No. Item(s)	Result (mg/kg)									
	5	11	16	24	25	26	27	28	56	74
Cr(VI) <sup>[2]</sup>	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

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Sample No. Item(s)	Result (mg/kg)									
	81	84	86	87	98	102	133	143	144	145
Cr(VI) <sup>[2]</sup>	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Note: "[2]": Denotes report as total chromium. Result test less than 10 indicates that Hexavalent chromium (Non-metal) is below the reporting limit.

Sample No. Item(s)	Result							
	42	61	76	78	79	80	104	123
Cr(VI)	Negative							

## 2.4 Brominated Flame Retardants (PBBs, PBDEs) analysis:

Sample No. Item(s)	Result (mg/kg)						
	11	31	44	45	46	47	57
Monobromobiphenyl (MonoBB)	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Dibromobiphenyl (DiBB)	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Tribromobiphenyl (TriBB)	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Tetrabromobiphenyl (TetraBB)	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Pentabromobiphenyl (PentaBB)	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Hexabromobiphenyl (HexaBB)	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Heptabromobiphenyl (HeptaBB)	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Octabromobiphenyl (OctaBB)	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Nonabromobiphenyl (NonaBB)	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Decabromobiphenyl (DecaBB)	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Sum of (PBBs)	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Monobromodiphenyl ether (MonoBDE)	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Dibromodiphenyl ether (DiBDE)	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Tribromodiphenyl ether (TriBDE)	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Tetrabromodiphenyl ether (TetraBDE)	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Pentabromodiphenyl ether (PentaBDE)	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Hexabromodiphenyl ether (HexaBDE)	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Heptabromodiphenyl ether (HeptaBDE)	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Octabromodiphenyl ether (OctaBDE)	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Nonabromodiphenyl ether (NonaBDE)	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Decabromodiphenyl ether (DecaBDE)	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Sum of (PBDEs)	ND.	ND.	ND.	ND.	ND.	ND.	ND.

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Item(s)	Sample No.	Result (mg/kg)						
	58	59	60	62	63	64	65	
Monobromobiphenyl (MonoBB)	ND.	ND.	ND.	ND.	ND.	ND.	ND.	
Dibromobiphenyl (DiBB)	ND.	ND.	ND.	ND.	ND.	ND.	ND.	
Tribromobiphenyl (TriBB)	ND.	ND.	ND.	ND.	ND.	ND.	ND.	
Tetrabromobiphenyl (TetraBB)	ND.	ND.	ND.	ND.	ND.	ND.	ND.	
Pentabromobiphenyl (PentaBB)	ND.	ND.	ND.	ND.	ND.	ND.	ND.	
Hexabromobiphenyl (HexaBB)	ND.	ND.	ND.	ND.	ND.	ND.	ND.	
Heptabromobiphenyl (HeptaBB)	ND.	ND.	ND.	ND.	ND.	ND.	ND.	
Octabromobiphenyl (OctaBB)	ND.	ND.	ND.	ND.	ND.	ND.	ND.	
Nonabromobiphenyl (NonaBB)	ND.	ND.	ND.	ND.	ND.	ND.	ND.	
Decabromobiphenyl (DecaBB)	ND.	ND.	ND.	ND.	ND.	ND.	ND.	
Sum of (PBBs)	ND.	ND.	ND.	ND.	ND.	ND.	ND.	
Monobromodiphenyl ether (MonoBDE)	ND.	ND.	ND.	ND.	ND.	ND.	ND.	
Dibromodiphenyl ether (DiBDE)	ND.	ND.	ND.	ND.	ND.	ND.	ND.	
Tribromodiphenyl ether (TriBDE)	ND.	ND.	ND.	ND.	ND.	ND.	ND.	
Tetrabromodiphenyl ether (TetraBDE)	ND.	ND.	ND.	ND.	ND.	ND.	ND.	
Pentabromodiphenyl ether (PentaBDE)	ND.	ND.	ND.	ND.	ND.	ND.	ND.	
Hexabromodiphenyl ether (HexaBDE)	ND.	ND.	ND.	ND.	ND.	ND.	ND.	
Heptabromodiphenyl ether (HeptaBDE)	ND.	ND.	ND.	ND.	ND.	ND.	ND.	
Octabromodiphenyl ether (OctaBDE)	ND.	ND.	ND.	ND.	ND.	ND.	ND.	
Nonabromodiphenyl ether (NonaBDE)	ND.	ND.	ND.	ND.	ND.	ND.	ND.	
Decabromodiphenyl ether (DecaBDE)	ND.	ND.	ND.	ND.	ND.	ND.	ND.	
Sum of (PBDEs)	ND.	ND.	ND.	ND.	ND.	ND.	ND.	

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Item(s)	Sample No.	Result (mg/kg)							
		66	67	69	92	105	106	129	135
Monobromobiphenyl (MonoBB)		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Dibromobiphenyl (DiBB)		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Tribromobiphenyl (TriBB)		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Tetrabromobiphenyl (TetraBB)		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Pentabromobiphenyl (PentaBB)		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Hexabromobiphenyl (HexaBB)		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Heptabromobiphenyl (HeptaBB)		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Octabromobiphenyl (OctaBB)		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Nonabromobiphenyl (NonaBB)		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Decabromobiphenyl (DecaBB)		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Sum of (PBBs)		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Monobromodiphenyl ether (MonoBDE)		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Dibromodiphenyl ether (DiBDE)		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Tribromodiphenyl ether (TriBDE)		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Tetrabromodiphenyl ether (TetraBDE)		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Pentabromodiphenyl ether (PentaBDE)		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Hexabromodiphenyl ether (HexaBDE)		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Heptabromodiphenyl ether (HeptaBDE)		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Octabromodiphenyl ether (OctaBDE)		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Nonabromodiphenyl ether (NonaBDE)		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Decabromodiphenyl ether (DecaBDE)		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
Sum of (PBDEs)		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.

## 2.5 Phthalates (PAEs) analysis:

Item(s)	Sample No.	Result (mg/kg)									
		1	2	3	4	5	6	7	9	11	14
DBP		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	$1.09 \times 10^3$
BBP		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
DEHP		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	$1.14 \times 10^3$
DIBP		ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.

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Sample No. Item(s)	Result (mg/kg)									
	15	16	17	18	19	20	21	22	23	24
DBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
BBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
DEHP	ND.	ND.	ND.	198	ND.	ND.	ND.	ND.	ND.	ND.
DIBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.

Sample No. Item(s)	Result (mg/kg)									
	25	26	27	28	29	30	31	33	35	36
DBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
BBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
DEHP	869	ND.								
DIBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.

Sample No. Item(s)	Result (mg/kg)									
	40	44	45	46	47	48	51	55	56	57
DBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
BBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
DEHP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
DIBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.

Sample No. Item(s)	Result (mg/kg)									
	58	59	60	62	63	64	65	66	67	69
DBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
BBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
DEHP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
DIBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.

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Sample No. Item(s)	Result (mg/kg)									
	71	72	73	74	75	81	83	84	86	87
DBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
BBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
DEHP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
DIBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.

Sample No. Item(s)	Result (mg/kg)									
	88	90	91	92	96	98	99	102	105	106
DBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
BBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
DEHP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
DIBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.

Sample No. Item(s)	Result (mg/kg)										
	108	112	114	115	119	120	121	122	127	128	129
DBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
BBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
DEHP	235	ND.									
DIBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.

Sample No. Item(s)	Result (mg/kg)										
	132	133	134	135	140	141	143	144	145	148	149
DBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
BBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
DEHP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.
DIBP	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.	ND.

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**Note:**

- (1) As specified by applicant, to test content in the selected materials of the submitted samples. The test results are only responsible for the submitted sample.
- (2) BL = Below limit by XRF analysis.
- (3) OL = Over limit by XRF analysis, the range of needing to do further testing.
- (4) X = Inconclusive result, the range of needing to do further testing.
- (5)  $\sigma$  = The reproducibility of analytical instruments.
- (6) NA = Not applicable.
- (7) MDL = Method detection limit.
- (8) mg/kg = ppm = part per million.
- (9) ND.= Not detected (less than report limit).
- (10) Negative = The negative test result indicated the concentration of Cr(VI) is less than threshold of  $0.10(\mu\text{g}/\text{cm}^2)$  for boiling-water-extraction procedures by UV-VIS Spectrophotometer analysis. The coating is considered a non-Cr(VI) based coating.
- (11) "<" = Less than.
- (12) The XRF screening test for RoHS elements. The reading may be different to the actual content in the sample be of non-uniformity composition.

**Sample photo(s):**

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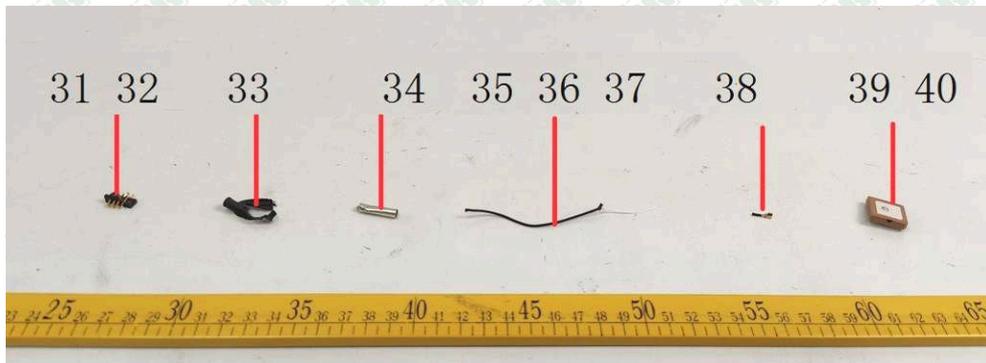
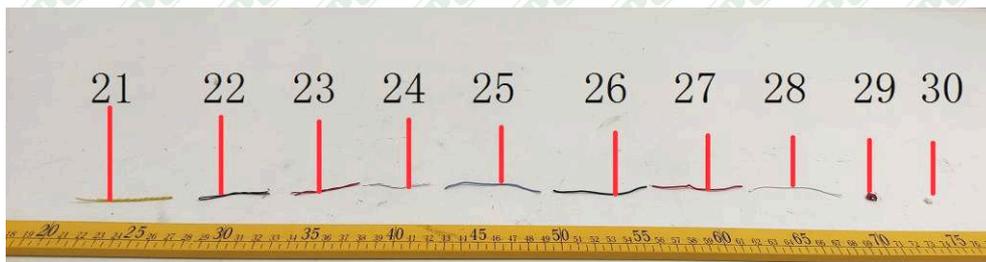
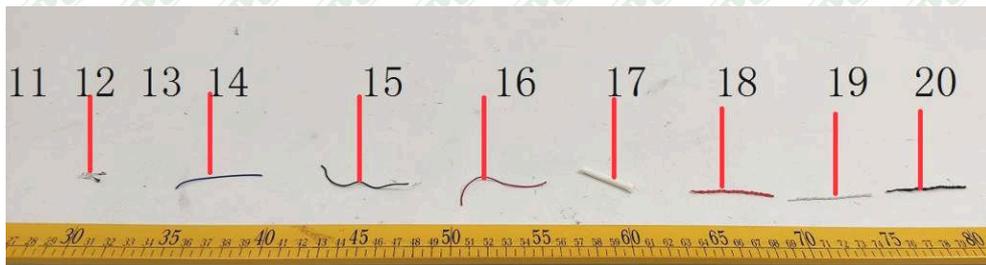
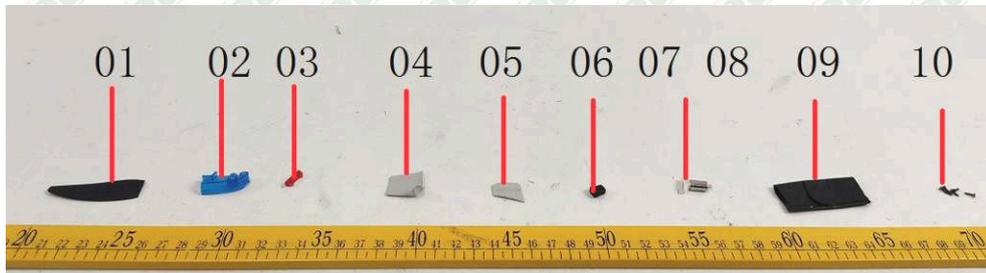


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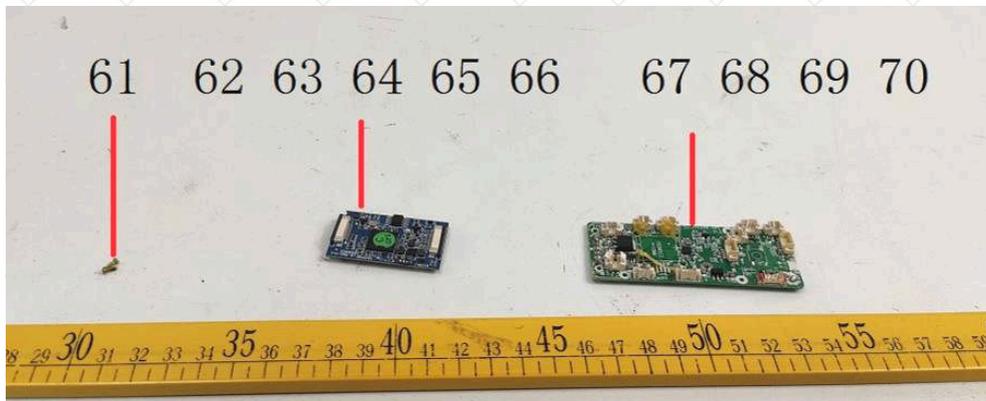
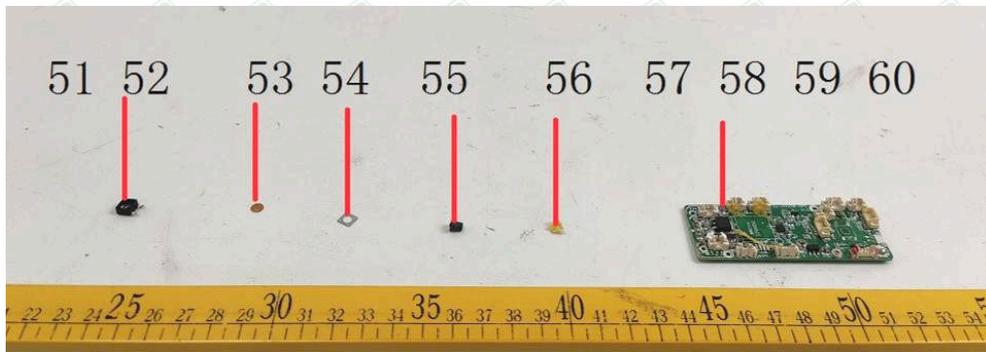
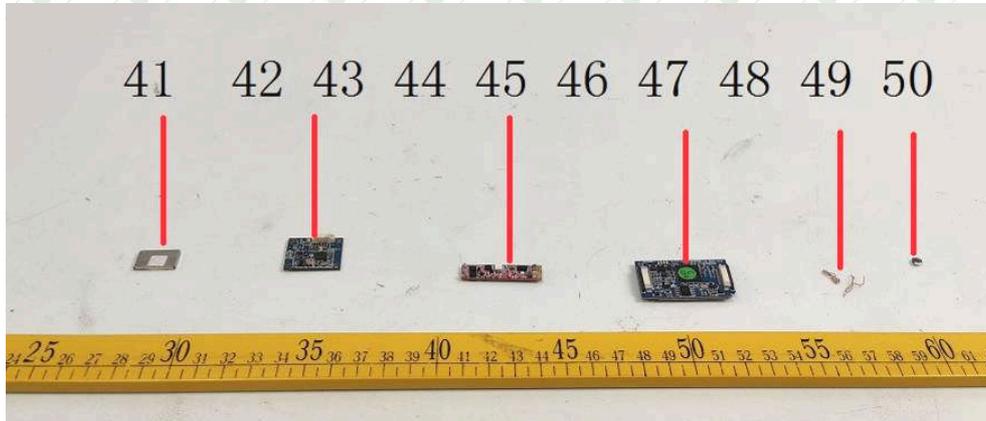
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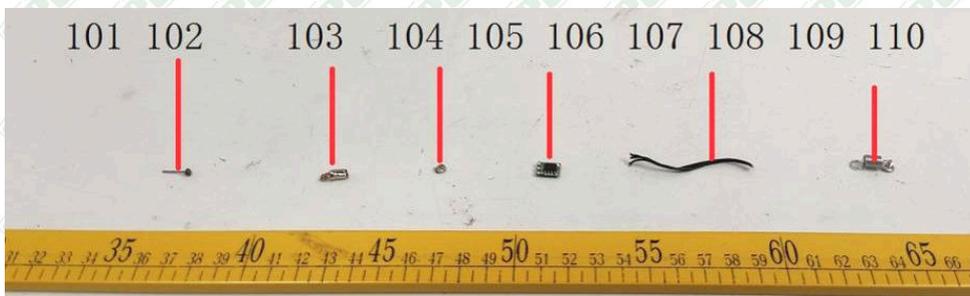
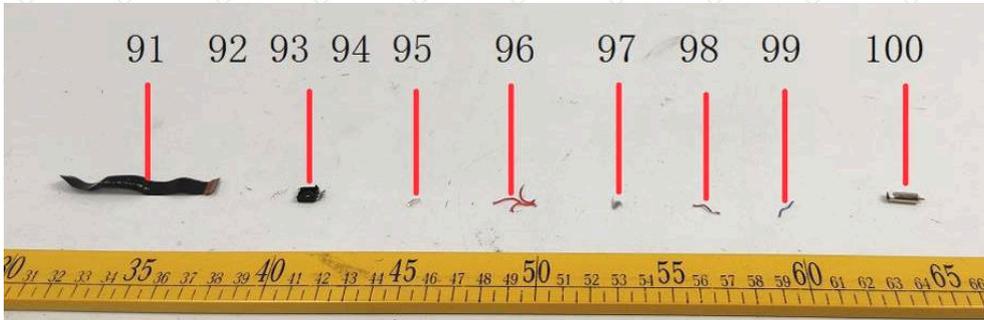
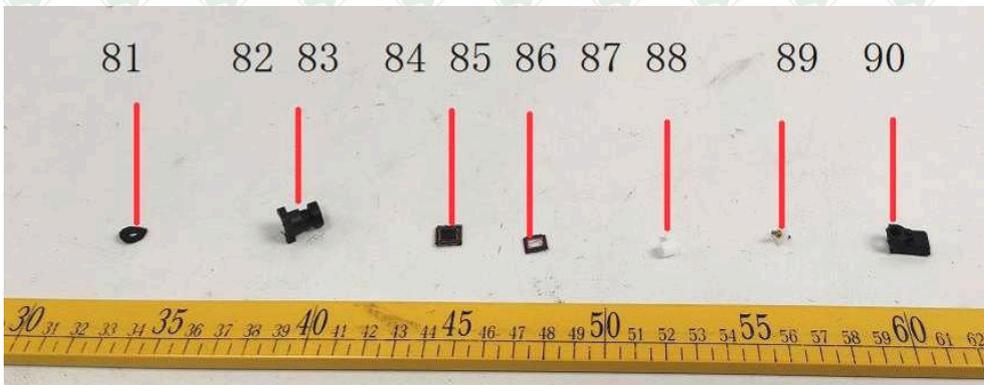


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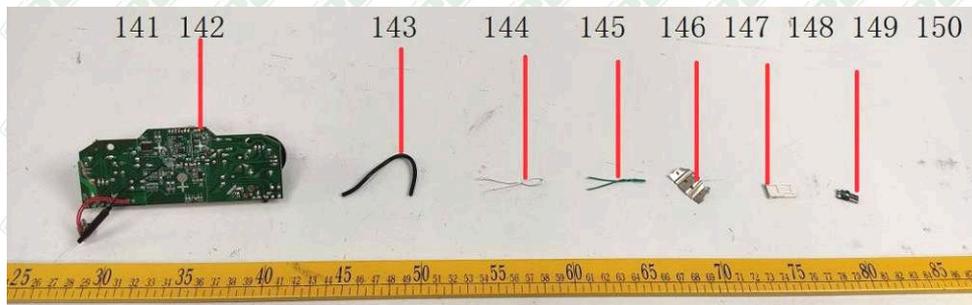
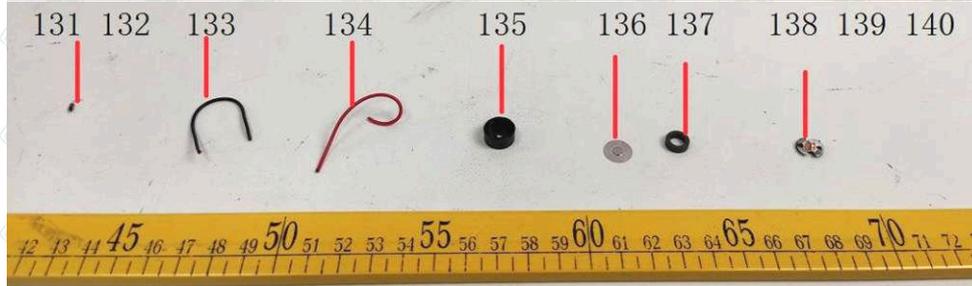
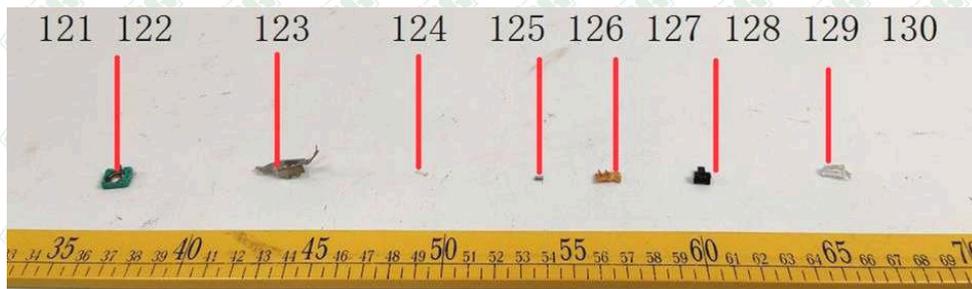


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\*\*\*\*\*End of Report\*\*\*\*\*

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