

Test Report

Report No.: AGC07887190401-005

Date: May 23, 2019

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Applicant: HONGDA TOYS FACTORY(BO JIANG TECHNOLOGY)
Address: GUANGFENG INDUSTRIAL ZONE,DENGFENG
ROAD,CHENGHAI,SHANTOU,GUANGDONG,CHINA
Test site: 1,6/F.,Building 2,No. 1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang,
Baoan District, Shenzhen, Guangdong, China

Report on the submitted sample(s) said to be:

Sample Name: 4 AXIS DRONE
Item No.: F1, F2, F3, F4, F5, F6, S5, S5H, S5W, S5HW, S6, S6W, S7, S7W,S7G S8, S8W,S8G
S9,S9H,S9W, S9MW,S9MG, S11, S11W, S12, S12W, S13, S13W, S15,
S15W, S17, S17W, S19, S19W, G01, G03, G05, G07, G09, G011, G013,
G015, G017, G019

Age Grading: 6+
Sample Received Date: Apr.16, 2019
Testing Period: Apr.16, 2019 to May 23, 2019

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

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

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

Approved by: 
Liulinwen, Lewis
Technical Director



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Test Requested:

Conclusion

1. As specified by client, to determine Lead(Pb), Cadmium(Cd), Mercury(Hg) content accordance with European Directive 2006/66/EC and its amendments 2013/56/EU.

Pass

2. As specified by client, to determine the Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs content in the submitted sample in accordance with EU RoHS Directive 2011/65/EU(RoHS) and its amendment directives on XRF and Chemical Method.

Pass

3. As specified by client, to determine the DBP, BBP, DEHP, DIBP content in the submitted sample in accordance with Directive 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863.

Pass

Test Methods:

A: Screening by X-ray Fluorescence Spectrometry (XRF) :With reference to IEC 62321-3-1:2013 Ed 1.0 Screening – Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry

B: Chemical test:

Test Item	Test Method	Measuring Instrument	MDL
Cadmium (Cd)	IEC 62321-5:2013 Ed 1.0	ICP-OES	2 mg/kg
Lead (Pb)	IEC 62321-5:2013 Ed 1.0	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4: 2013+A1:2017 Ed 1.1	ICP-OES	2 mg/kg
Non-metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-2:2017 Ed 1.0	UV-Vis	1 mg/kg
Metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-1:2015 Ed 1.0	UV-Vis	/
PBBs/PBDEs	IEC 62321-6:2015 Ed 1.0	GC-MS	5 mg/kg

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Test Result(s):

1. Test result of Lead(Pb), Cadmium(Cd), Mercury(Hg)

Unit: %,w/w

Test item(s)	Test Method/ Equipment	MDL	Result(s)	Limit
			24	
Lead (Pb)	IEC 62321-5:2013 ICP-OES	0.0005	N.D.	—
Cadmium (Cd)		0.0005	N.D.	0.002
Mercury (Hg)	IEC 62321-4: 2013+A1:2017 ICP-OES	0.0001	N.D.	0.0005
Conclusion	/	/	Pass	/

Note:

- N.D.=Not Detected(less than method detection limit)
- MDL = Method Detection Limit
- “—”=Not regulated
- As specified by client, only test the designated sample.

Sample Description

24	Electric core (Battery)
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Test Results:

A、EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
4 AXIS DRONE						
1.	Green plastic frame(Outer shell)	BL	BL	BL	BL	BL
2.	Black plastic shell(Outer shell)	BL	BL	BL	BL	BL
3.	Black plastic fan(Outer shell)	BL	BL	BL	BL	BL
4.	Silver screw	BL	BL	BL	BL	-
5.	Black plastic piece	BL	BL	BL	BL	BL
6.	Black foam	BL	BL	BL	BL	BL
7.	White plastic terminal(Terminal connection line)	BL	BL	BL	BL	BL
8.	Red wire jacket(Terminal connection line)	BL	BL	BL	BL	BL
9.	Black wire jacket(Terminal connection line)	BL	BL	BL	BL	BL
10.	Wire core(Terminal connection line)	BL	BL	BL	BL	-
11.	Brown moving plastic(Switch)(Main board)	BL	BL	BL	BL	BL
12.	Silver metal shell(Switch) (Main board)	BL	BL	BL	BL	-
13.	White plastic micropositioner(Main board)	BL	BL	BL	BL	X*
14.	Chip IC(Main board)	BL	BL	BL	BL	BL
15.	Crystal oscillator(Main board)	BL	BL	BL	BL	BL
16.	LED lamp(Main board)	BL	BL	BL	BL	X*
17.	Black connection line(Main board)	BL	BL	BL	BL	BL
18.	Chip triode(Main board)	BL	BL	BL	BL	BL
19.	Tin solder(Main board)	BL	BL	BL	BL	-
20.	Green PCB board(Main board)	BL	BL	BL	BL	X*
21.	Transparent tape(Battery)	BL	BL	BL	BL	BL
22.	Wrinkle paper(Battery)	BL	BL	BL	BL	BL
23.	Brown tape(Battery)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
25.	Tin solder(Battery)	BL	BL	BL	BL	-
26.	PCB board(Battery)	BL	BL	BL	BL	X*
27.	Red wire jacket(Battery)	BL	BL	BL	BL	BL
28.	Black wire jacket(Battery)	BL	BL	BL	BL	BL
29.	Wire core(Battery)	BL	BL	BL	BL	-
30.	Black heat shrinkable casing(Battery)	BL	BL	BL	BL	BL
31.	White plastic terminal(Battery)	BL	BL	BL	BL	BL
32.	Chip IC(Battery)	BL	BL	BL	BL	BL
33.	Tin plating(Battery)	BL	BL	BL	BL	-
34.	Pin(Battery)	BL	BL	BL	BL	-
35.	Silver metal shell(Motor)	BL	BL	BL	BL	-
36.	Silver magnet(Motor)	BL	BL	BL	BL	-
37.	Black plastic base seat(Motor)	BL	BL	BL	BL	BL
38.	Black wire jacket(Motor)	BL	BL	BL	X*	BL
39.	Wire core(Motor)	BL	BL	BL	BL	-
40.	White wire jacket(Motor)	BL	BL	BL	BL	BL
41.	Silvery metal axis(Motor)	BL	BL	BL	X*	-
42.	Enameled wire(Motor)	BL	BL	BL	BL	-
43.	LED lamp body(LED lamp)	BL	BL	BL	BL	X*
44.	Tin solder(LED lamp)	BL	BL	BL	BL	-
45.	Red wire jacket(LED lamp)	BL	BL	BL	BL	BL
46.	White wire jacket(LED lamp)	BL	BL	BL	BL	BL
47.	Wire core(LED lamp)	BL	BL	BL	BL	-
48.	White sealing frame	BL	BL	BL	BL	BL
49.	Blue trim	BL	BL	BL	BL	BL

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Remote control						
50.	Black plastic shell(Outer shell)	BL	BL	BL	BL	BL
51.	Silver screw	BL	BL	BL	BL	-
52.	Metal cell sheet	BL	BL	BL	BL	-
53.	QC tags	BL	BL	BL	BL	BL
54.	Black plastic button(Touch switch)	BL	BL	BL	BL	X*
55.	Silver metal sheet(Touch switch)	BL	BL	BL	BL	-
56.	Black connection line	BL	BL	BL	BL	BL
57.	Red LED	BL	BL	BL	BL	X*
58.	Chromatic ring inductor	BL	BL	BL	BL	BL
59.	Red wire jacket	BL	BL	BL	BL	BL
60.	Wire core	BL	BL	BL	BL	-
61.	Green plastic(Controller)	BL	BL	BL	BL	BL
62.	Silver metal frame(Controller)	BL	BL	BL	BL	-
63.	Silvery metal axis(Controller)	BL	BL	BL	BL	-
64.	Copper stent(Controller)	BL	BL	BL	BL	-
65.	Tin solder	BL	BL	BL	BL	-
66.	PCB board	BL	BL	BL	BL	X*
67.	IC body(IC)	BL	BL	BL	BL	BL
68.	Tin plating(IC)	BL	BL	BL	BL	-
69.	Pin(IC)	BL	BL	BL	BL	-
70.	Electrolytic capacitor	BL	BL	BL	BL	BL
71.	Black plastic ring(Buzzer)	BL	BL	BL	BL	X*
72.	Black magnet(Buzzer)	BL	BL	BL	BL	BL
73.	PCB board(Buzzer)	BL	BL	BL	BL	X*
74.	Tin solder(Buzzer)	BL	BL	BL	BL	-

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Camera						
75.	Black coating(Outer shell)	BL	BL	BL	BL	BL
76.	Red plastic shell(Outer shell)	BL	BL	BL	BL	BL
77.	Silver screw	BL	BL	BL	BL	-
78.	White FFC seat(Circuit board)	BL	BL	BL	X*	BL
79.	IC body(Circuit board)	BL	BL	BL	BL	BL
80.	Tin plating(Circuit board)	BL	BL	BL	BL	-
81.	Pin(Circuit board)	BL	BL	BL	BL	-
82.	Tin solder(Circuit board)	BL	BL	BL	BL	-
83.	PCB board(Circuit board)	BL	BL	BL	BL	X*
84.	Yellow wire jacket(Terminal connection line)	BL	BL	BL	BL	BL
85.	Red wire jacket(Terminal connection line)	BL	BL	BL	BL	BL
86.	Black wire jacket(Terminal connection line)	BL	BL	BL	BL	BL
87.	Wire core(Terminal connection line)	BL	BL	BL	BL	-
88.	White plastic terminal(Terminal connection line)	BL	BL	BL	BL	BL
89.	Chip magnetic frame	BL	BL	BL	BL	BL
90.	Chip crystal oscillator	BL	BL	BL	BL	BL
91.	Black plastic base seat(Camera)	BL	BL	BL	BL	BL
92.	Transparent lens(Camera)	BL	BL	BL	BL	BL
93.	Chip core(Camera)	BL	BL	BL	BL	BL
94.	FPC(Camera)	BL	BL	BL	BL	BL
USB line						
95.	Black plastic shell(Outer shell)	BL	BL	BL	BL	BL
96.	Black thread button(Outer shell)	BL	BL	BL	BL	BL
97.	Tin solder(Circuit board)	BL	BL	BL	BL	-
98.	IC body(Circuit board)	BL	BL	BL	BL	BL
99.	Tin plating(Circuit board)	BL	BL	BL	BL	-

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100.	Pin(Circuit board)	BL	BL	BL	BL	-
101.	PCB board(Circuit board)	BL	BL	BL	BL	X*
102.	White plastic plug(USB plug)	BL	BL	BL	BL	BL
103.	Contact pin(USB plug)	BL	BL	BL	X*	-
104.	USB metal plug(USB plug)	BL	BL	BL	BL	-
105.	White plastic terminal(Terminal connection line)	BL	BL	BL	BL	BL
106.	Black handle(Terminal connection line)	BL	BL	BL	BL	BL
107.	Black outer wire jacket(Terminal connection line)	BL	BL	BL	BL	BL
108.	Green wire jacket(Terminal connection line)	BL	BL	BL	BL	BL
109.	Wire core(Terminal connection line)	BL	BL	BL	BL	-
110.	White wire jacket(Terminal connection line)	BL	BL	BL	BL	BL
Blue aircraft						
111.	Blue plastic frame	BL	BL	BL	BL	BL
Humanoid doll						
112.	Flesh color coating(Outer shell)	BL	BL	BL	BL	BL
113.	White plastic shell(Outer shell)	BL	BL	BL	BL	BL
114.	Green coating(Outer shell)	BL	BL	BL	BL	BL
115.	Black coating(Outer shell)	BL	BL	BL	BL	BL
116.	Red plastic shell(Outer shell)	BL	BL	BL	BL	BL
117.	Blue plastic shell(Outer shell)	BL	BL	BL	BL	BL
118.	Dark blue plastic shell(Outer shell)	BL	BL	BL	BL	BL
119.	Grey coating(Outer shell)	BL	BL	BL	BL	BL
Bolt driver						
120.	Transparent plastic handle	BL	BL	BL	BL	BL
121.	Metal screw	BL	BL	BL	BL	-

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Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	$BL \leq 70 - 3\sigma < X$ $< 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma < X$ $< 130 + 3\sigma \leq OL$	$BL \leq 50 - 3\sigma < X$ $< 150 + 3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X$ $< 1500 + 3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X$ $< 1500 + 3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$
Br	mg/kg	$BL \leq 300 - 3\sigma < X$	-	$BL \leq 250 - 3\sigma < X$

Note: BL= Below Limit

OL= Over limited

X= Inconclusive

“-“= Not regulated

*= Scanning by XRF and detected by chemical method. The test results of chemical method please refer to next pages.

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Remark:

- i Results were obtained by XRF for primary scanning, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the above warning value according to IEC 62321-3-1:2013 Ed 1.0.
- ii The XRF scanning test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- iii The maximum permissible limit is quoted from RoHS directive 2011/65/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000

Disclaimers:

This XRF Scanning report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF scanning report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

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B、The Test Results of Chemical Method:

1) The Test Results of non-metal Cr⁶⁺

Test Item(s)	Unit	Result(s)		Limit
		38	78	
Hexavalent Chromium(Cr ⁶⁺)	mg/kg	N.D.	N.D.	1000

Note: N.D. = Not Detected or less than MDL
mg/kg = parts per million
MDL = Method Detection Limit

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2) The Test Results of metal Cr⁶⁺

Test Item(s)	MDL	Result(s)		Limit
		41	103	
Hexavalent Chromium (Cr ⁶⁺)	See note	Negative	Negative	#

Note:

- Negative = Absence of Cr(VI) on the tested areas
- MDL = Method Detection Limit
- Boiling-water-extraction:

Number	Colorimetric result (Cr(VI) concentration)	Qualitative result
1	The sample solution is < the 0,10 µg/cm ² equivalent comparison standard solution	The sample is negative for Cr(VI) – The Cr(VI) concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.
2	The sample solution is ≥ the 0,10 µg/cm ² and ≤ the 0,13 µg/cm ² equivalent comparison standard solutions	The result is considered to be inconclusive – Unavoidable coating variations may influence the determination.
3	The sample solution is > the 0,13 µg/cm ² equivalent comparison standard solution	The sample is positive for Cr(VI) – The Cr(VI) concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

- # = Negative indicates the absence of Cr(VI) on the tested areas concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.

Uncertainty indicates the absence of Cr(VI) on the tested areas unavoidable coating variations may influence the determination.

Positive indicates the presence of Cr(VI) on the tested areas concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status of the sample at the time of testing.

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3) The Test Results of PBBs & PBDEs

Unit: mg/kg

Item(s)	MDL	Result(s)						Limit
		13	16	20	26	43	54	
Polybrominated Biphenyls (PBBs)								
Monobromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Total PBBs Content <1000
Dibromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	/	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Polybrominated Diphenylethers (PBDEs)								
Monobromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Total PBDEs Content <1000
Dibromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	/	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Conclusion	/	Pass	Pass	Pass	Pass	Pass	Pass	/

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Unit: mg/kg

Item(s)	MDL	Result(s)						Limit
		57	66	71	73	83	101	
Polybrominated Biphenyls (PBBs)								
Monobromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Total PBBs Content <1000
Dibromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	/	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Polybrominated Diphenylethers (PBDEs)								
Monobromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Total PBDEs Content <1000
Dibromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	/	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
Conclusion	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Note: N.D. = Not Detected or less than MDL
 mg/kg = parts per million
 MDL = Method Detection Limit

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3. Test result of DBP, BBP, DEHP, DIBP content

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			1	2	3	5	
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		/	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			6	7	8	9	
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		/	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			11	13	14	15	
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		/	Pass	Pass	Pass	Pass	/

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Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			16	17	18	20	
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		/	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			21	22	23	26	
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		/	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			27	28	30	31	
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		/	Pass	Pass	Pass	Pass	/

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Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			32	37	38	40	
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		/	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			43	45	46	48	
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		/	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			49	50	53	54	
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		/	Pass	Pass	Pass	Pass	/

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Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			56	57	58	59	
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		/	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			61	66	67	70	
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		/	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			71	72	73	75	
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		/	Pass	Pass	Pass	Pass	/

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Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			76	78	79	83	
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		/	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			84	85	86	88	
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		/	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			89	90	91	92	
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		/	Pass	Pass	Pass	Pass	/

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Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			93	94	95	96	
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		/	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			98	101	102	105	
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		/	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			106	107	108	110	
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		/	Pass	Pass	Pass	Pass	/

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Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			111	112	113	114	
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		/	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			115	116	117	118	
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		/	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)		Limit
			119	120	
Di-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	1000
Conclusion		/	Pass	Pass	/

Note: 1. MDL = Method Detection Limit
2. N.D. = Not Detected (less than method detection limit)

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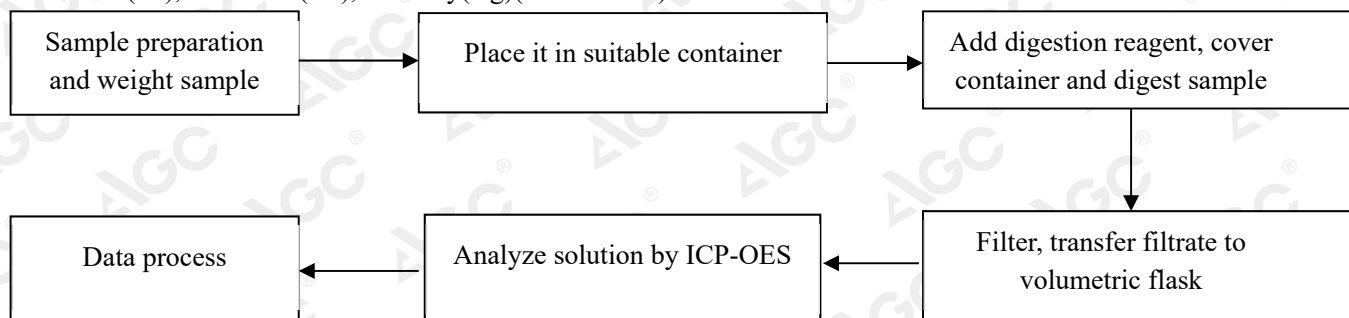
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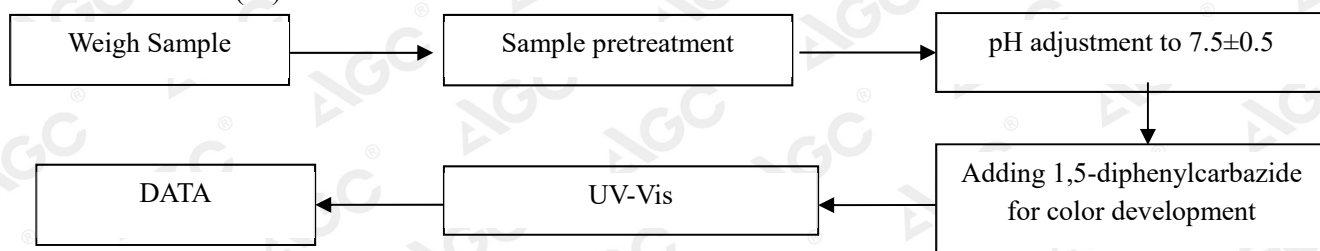
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Test Flow Chart

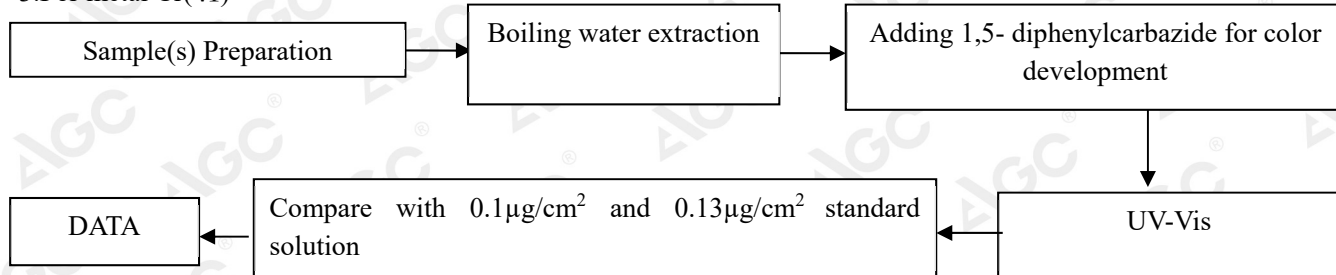
1. For Lead(Pb), Cadmium(Cd), Mercury(Hg)(2006/66/EC)



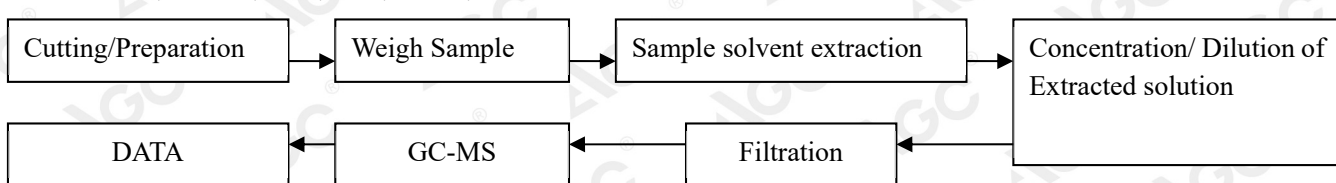
2. For non-metal Cr(VI)



3. For metal Cr(VI)



4. For PBBs, PBDEs, DBP, BBP, DEHP, DIBP



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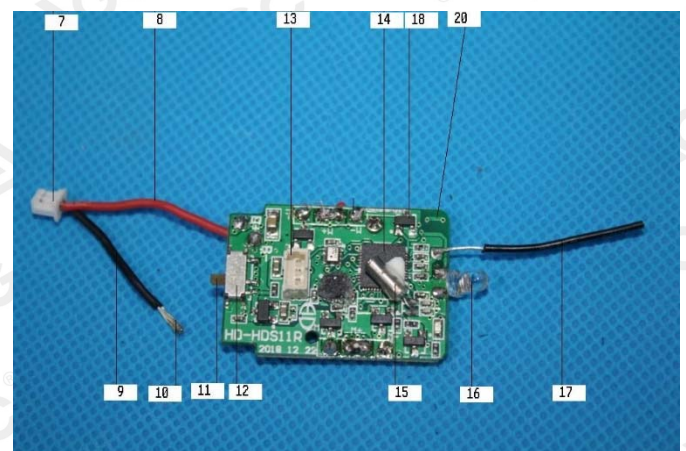
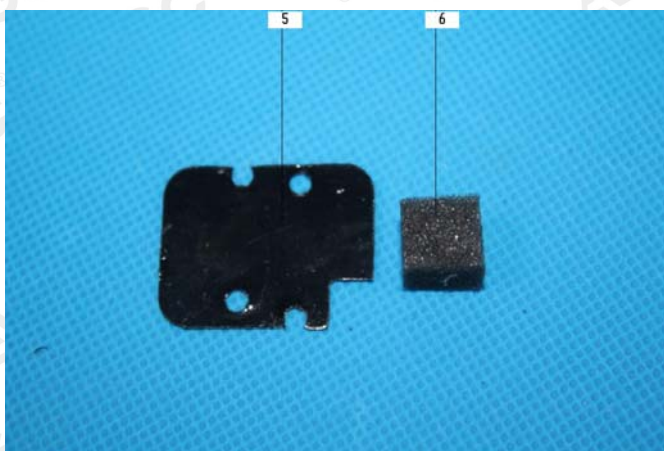
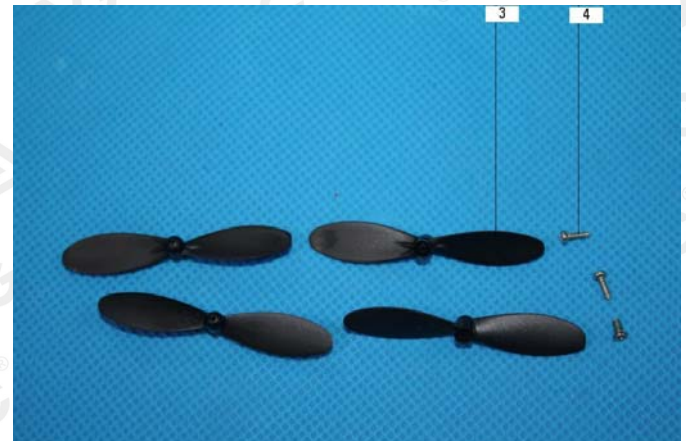
Date: May 23, 2019

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Test result on specimen No.45, No.46 were resubmitted on May 07, 2019.

Test result on specimen No.19, No.44, No.65, No.68, No.74 were resubmitted on May 16, 2019.

The photo of the sample



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No.18 C

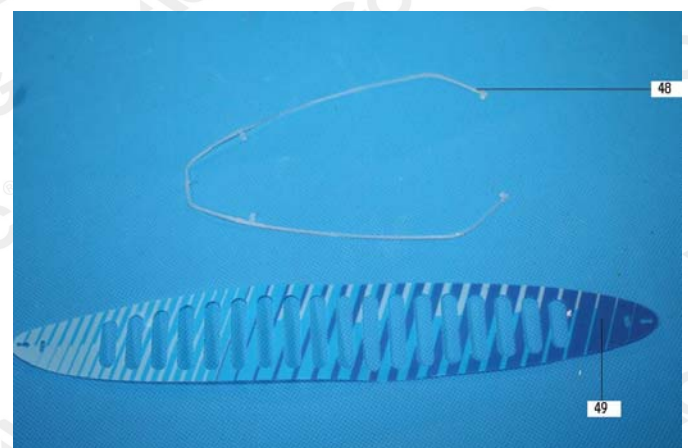
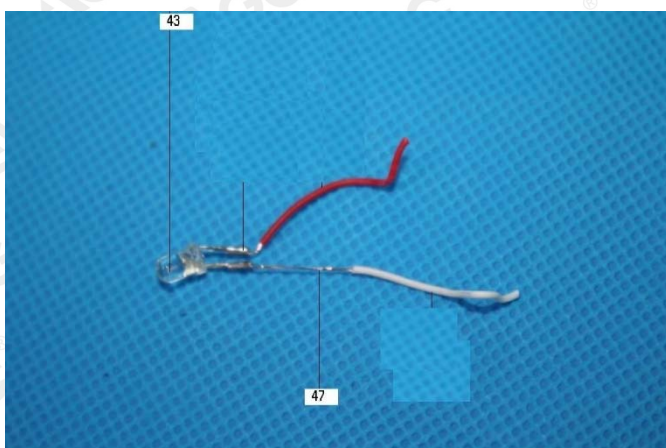
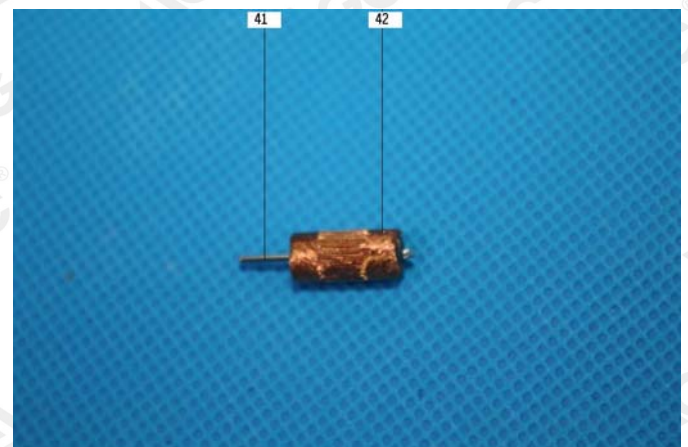
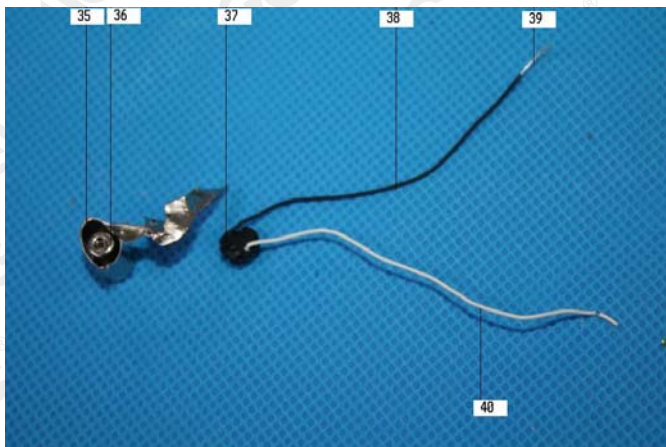
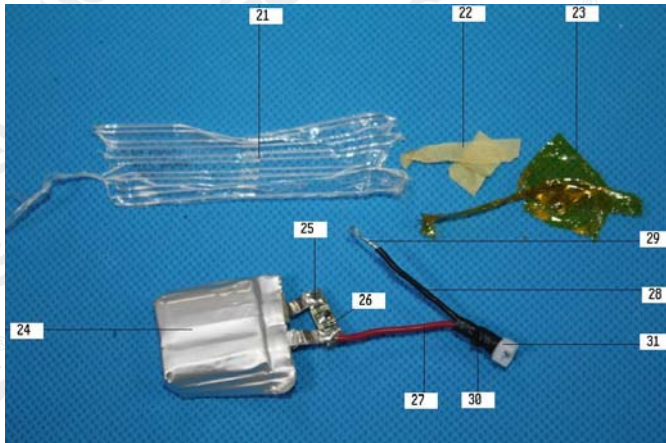
Tel: +86-755 8358 3833 Fax: +86-755 2531 6612 E-mail: agc01@agc-cert.com 400 089 2118
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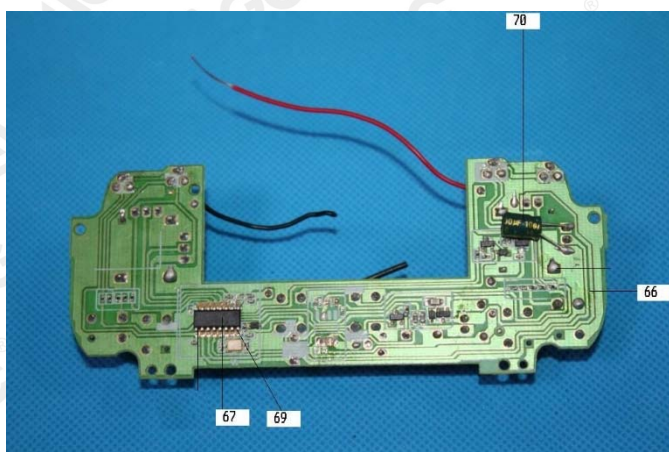
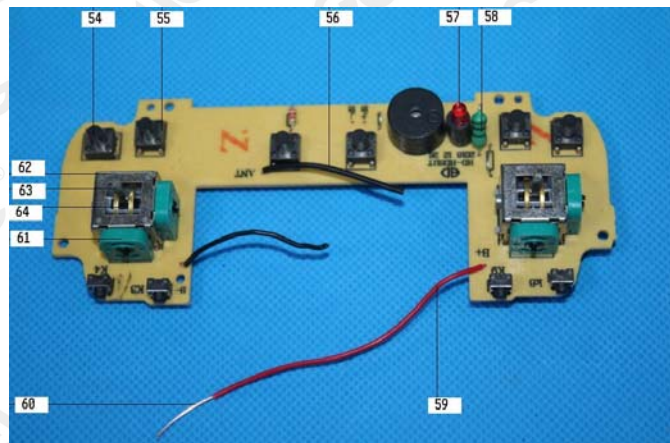
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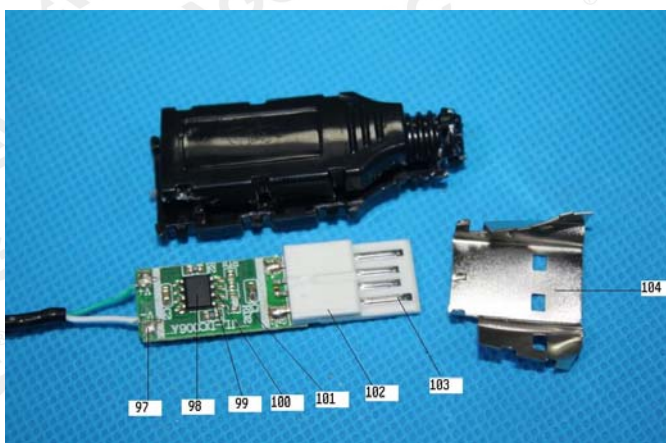
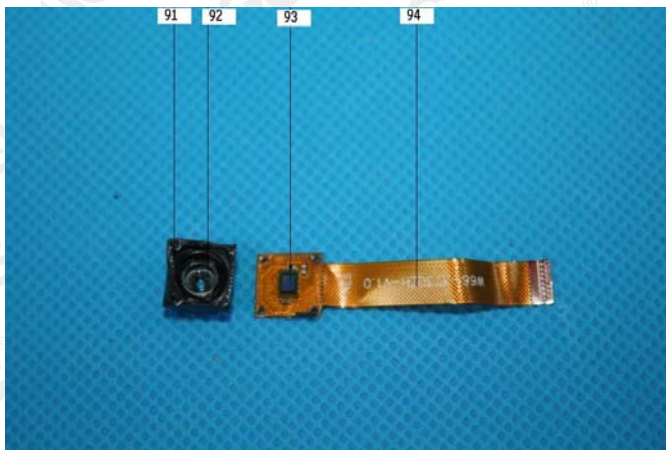
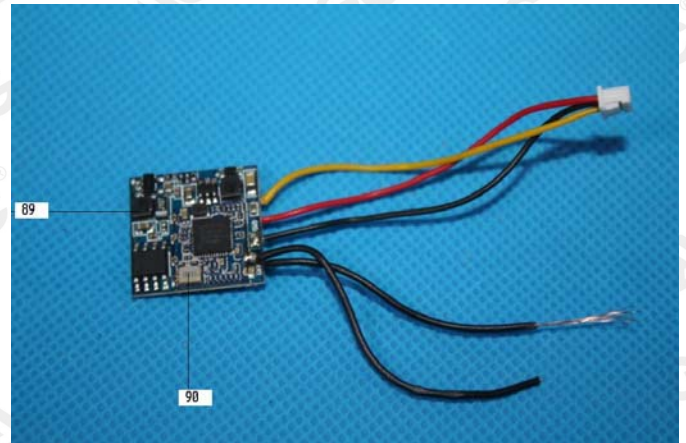
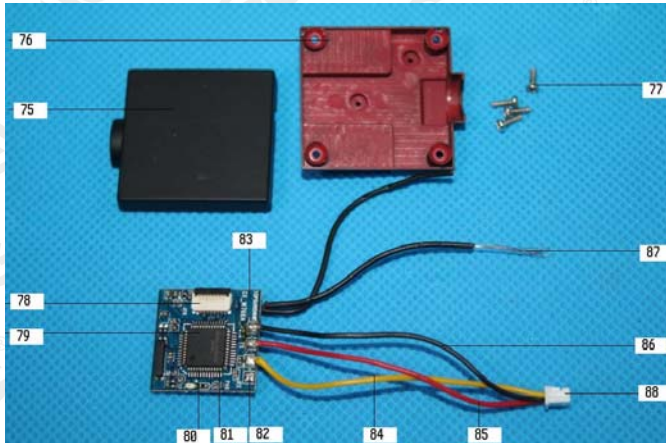
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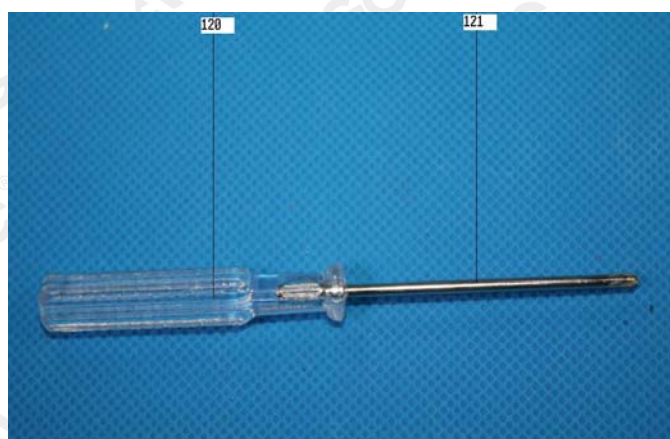
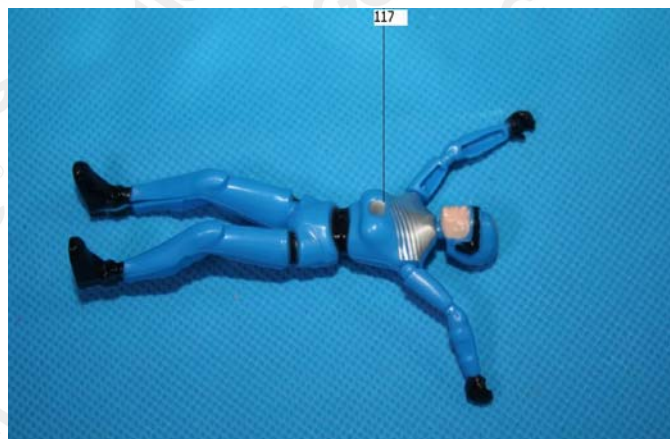
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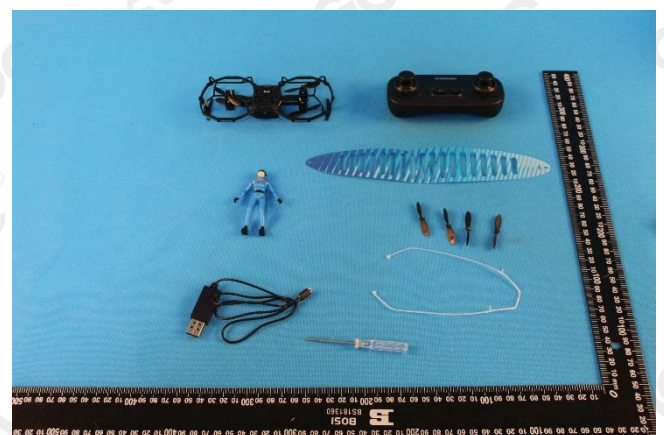
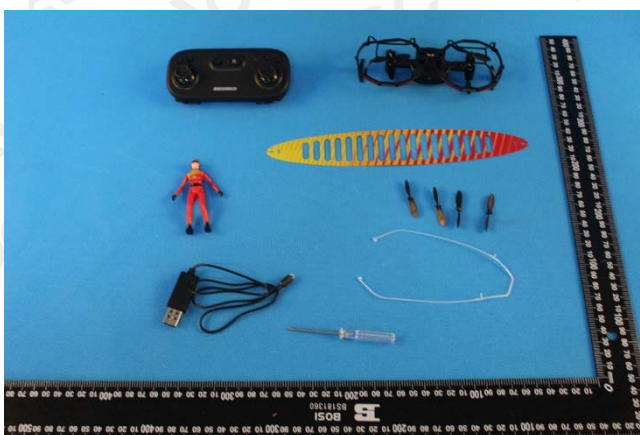
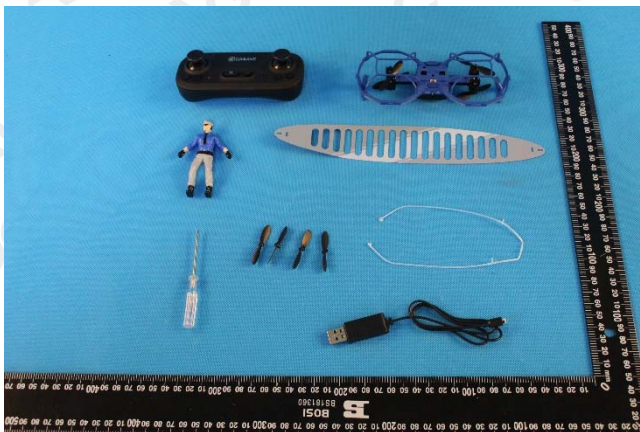
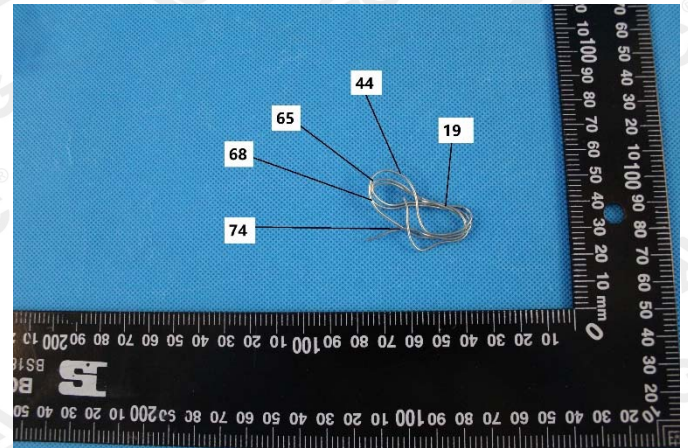
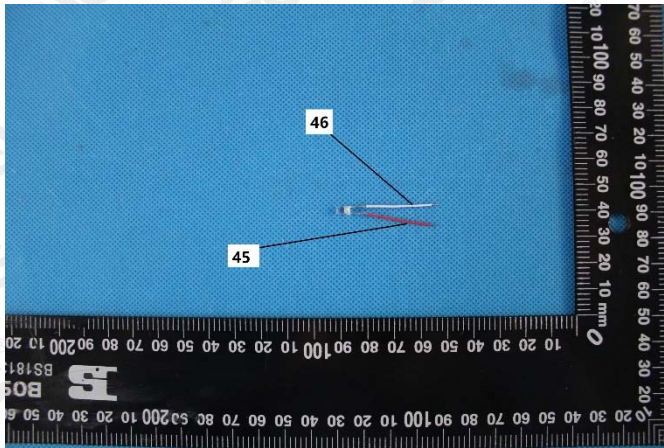
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AGC authenticate the photo only on original report

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