

Test Report

Report No.:MG26G3155R

Date:Jul. 30,2026

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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: 117486
Address: N/A

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

Sample Name: Charging cable with charger
Sample Model: MO3145
Sample Received Date: Jul. 13, 2026
Testing Period: Jul. 13, 2026 to Jul. 29, 2026

Test Requested

As requested by the applicant, refer to attached page(s) for details.

Approved by:

Jack Leung

Jack Leung/ Technical Manager



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Summary of Test Results:

Test Requirement	Conclusion
European RoHS Directive 2011/65/EU and amendment (EU) 2015/863 on the restriction of the use of certain hazardous substances in electrical and electronic equipment & EN IEC 63000:2018 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.	
1. To determine Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls (PBBs) and Polybrominated DiphenylEthers (PBDEs)content by screening test and chemical test.	Pass
2. To determine Phthalates (DBP, BBP, DEHP, DIBP) content by chemical test.	Pass

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Test Method:

A. Screening test by XRF spectroscopy

XRF Screening Limits for Regulated Elements in Various Matrices according to IEC 62321-3-1:2013

Element	Screening limit (mg/kg)			MDL	
	Polymer Materials	Metallic Materials	Composite Materials	Polymers	Other material
Pb	$BL \leq 700 - 3\sigma \leq X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma \leq X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma \leq X < 1500 + 3\sigma \leq OL$	10mg/kg	50mg/kg
Cd	$BL \leq 70 - 3\sigma \leq X < 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma \leq X < 130 + 3\sigma \leq OL$	$LOD < X < 150 + 3\sigma \leq OL$	10mg/kg	50mg/kg
Hg	$BL \leq 700 - 3\sigma \leq X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma \leq X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma \leq X < 1500 + 3\sigma \leq OL$	10mg/kg	50mg/kg
Cr	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$	10mg/kg	50mg/kg
Br	$BL \leq 300 - 3\sigma < X$	--	$BL \leq 250 - 3\sigma < X$	10mg/kg	50mg/kg

- Note:**
- BL = Under the XRF screening limit
 - OL = Future chemical test will be conducted while result is above the screening limit
 - X =The symbol“X”marks the region where further investigation in necessary
 - 3σ =The reproducibility of analytical instruments
 - MDL= Method Detection limit

B. Chemical Test

Test Item(s)	Test Method	Analysis Equipment(s)	MDL	Limit
Lead (Pb)	IEC 62321-5:2013	ICP-OES	2 mg/kg	1000mg/kg
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	2 mg/kg	100mg/kg
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000mg/kg
Hexavalent Chromium Cr(VI)	IEC 62321-7-1:2015	UV-VIS	0.10 μ g/cm ²	1000mg/kg
	IEC 62321-7-2:2017		8 mg/kg	
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	5 mg/kg	1000mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS	5 mg/kg	1000mg/kg
Phthalate	IEC 62321-8:2017	GC-MS	30mg/kg	1000mg/kg

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Test Results:

1. Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr) and Bromine (Br) content were measured with reference to IEC 62321-3-1:2013 by XRF spectroscopy and chemical confirmation test for RoHS restricted substances.

No.	XRF screening Result					Chemical confirm Result (mg/kg)	Conclusion
	Pb	Cd	Hg	Cr	Br		
1	BL	BL	BL	BL	BL	--	Pass
2	BL	BL	BL	BL	BL	--	Pass
3	BL	BL	BL	BL	BL	--	Pass
4	BL	BL	BL	BL	BL	--	Pass
5	BL	BL	BL	BL	BL	--	Pass
6	BL	BL	BL	BL	BL	--	Pass
7	BL	BL	BL	BL	--	--	Pass
8	BL	BL	BL	BL	--	--	Pass
9	BL	BL	BL	BL	--	--	Pass
10	BL	BL	BL	BL	BL	--	Pass
11	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	Pass
12	BL	BL	BL	X	--	Cr ⁶⁺ : Negative	Pass
13	BL	BL	BL	BL	BL	--	Pass
14	BL	BL	BL	BL	BL	--	Pass
15	BL	BL	BL	BL	BL	--	Pass
16	BL	BL	BL	BL	BL	--	Pass
17	BL	BL	BL	BL	BL	--	Pass
18	BL	BL	BL	BL	BL	--	Pass
19	BL	BL	BL	BL	BL	--	Pass
20	BL	BL	BL	BL	BL	--	Pass
21	BL	BL	BL	BL	BL	--	Pass
22	BL	BL	BL	BL	BL	--	Pass
23	BL	BL	BL	BL	BL	--	Pass

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No.	XRF screening Result					Chemical confirm Result (mg/kg)	Conclusion
	Pb	Cd	Hg	Cr	Br		
24	BL	BL	BL	X	--	Cr ⁶⁺ : Negative	Pass
25	BL	BL	BL	X	--	Cr ⁶⁺ : Negative	Pass
26	BL	BL	BL	X	--	Cr ⁶⁺ : Negative	Pass
27	BL	BL	BL	BL	--	--	Pass
28	BL	BL	BL	BL	BL	--	Pass
29	BL	BL	BL	BL	--	--	Pass
30	BL	BL	BL	BL	--	--	Pass
31	BL	BL	BL	BL	--	--	Pass
32	BL	BL	BL	BL	BL	--	Pass
33	BL	BL	BL	BL	--	--	Pass
34	BL	BL	BL	BL	--	--	Pass
35	BL	BL	BL	BL	--	--	Pass
36	BL	BL	BL	BL	--	--	Pass
37	BL	BL	BL	BL	--	--	Pass
38	BL	BL	BL	BL	--	--	Pass
39	BL	BL	BL	BL	BL	--	Pass
40	BL	BL	BL	BL	BL	--	Pass
41	BL	BL	BL	BL	--	--	Pass
42	BL	BL	BL	X	--	Cr ⁶⁺ : Negative	Pass
43	BL	BL	BL	X	--	Cr ⁶⁺ : Negative	Pass
44	BL	BL	BL	X	--	Cr ⁶⁺ : Negative	Pass
45	BL	BL	BL	X	--	Cr ⁶⁺ : Negative	Pass

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2. Phthalate Content Test

Test Item(s)	Dibutyl Phthalate (DBP)	Butyl benzyl phthalate (BBP)	Di-(2-ethylhexyl) Phthalate (DEHP)	Diisobutyl phthalate (DIBP)	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
Limit	1000	1000	1000	1000	
No.	Test Result (mg/kg)				
1+2+3	N.D.	N.D.	N.D.	N.D.	
4+6	N.D.	N.D.	N.D.	N.D.	
5+28	N.D.	N.D.	N.D.	N.D.	
10	N.D.	N.D.	N.D.	N.D.	
11+23	N.D.	N.D.	N.D.	N.D.	
13+14+15	N.D.	N.D.	N.D.	N.D.	
16+17+18	N.D.	N.D.	N.D.	N.D.	
19+20+21	N.D.	N.D.	N.D.	N.D.	
22	N.D.	N.D.	N.D.	N.D.	
32+39+40	N.D.	N.D.	N.D.	N.D.	Pass

Remark:

- -- = Not tested
- BL = The result is below the XRF screening limit
- OL = Over Limit
- X = Inconclusive, Future chemical test will be conducted
- mg/kg = milligram per kilogram = ppm
- N.D. = Not Detected(<MDL)
- MDL = Method Detection Limit
- Positive = A positive test result indicated the concentration of Cr(VI) is greater than threshold of 0.13 $\mu\text{g}/\text{cm}^2$ for boiling-water-extraction procedures by visual comparison / by UV-VIS Spectrophotometer analysis. The sample coating is considered to contain Cr(VI).
- Negative = A 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

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considered a non-Cr(VI) based coating.

- The results shown in this XRF Screening 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.).If the XRF Screening concentration exceeds,need further chemical testing by ICP-OES (for Cd, Pb,Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed.

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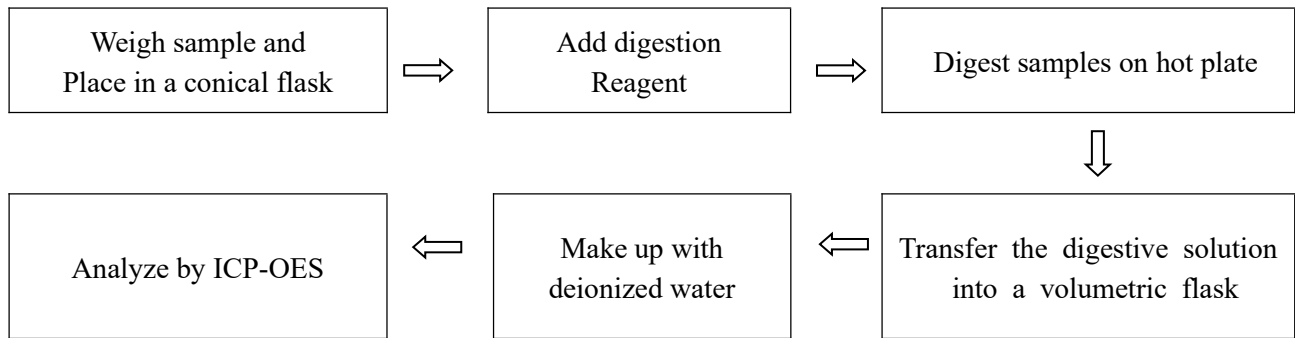
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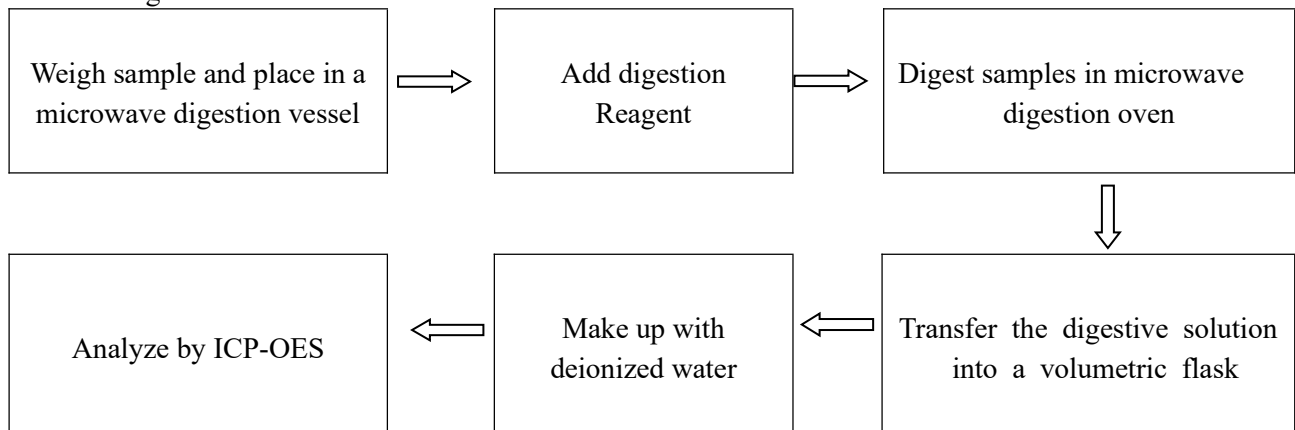
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3. Test Process

1) Test for Cd/Pb Content



2) Test for Hg Content



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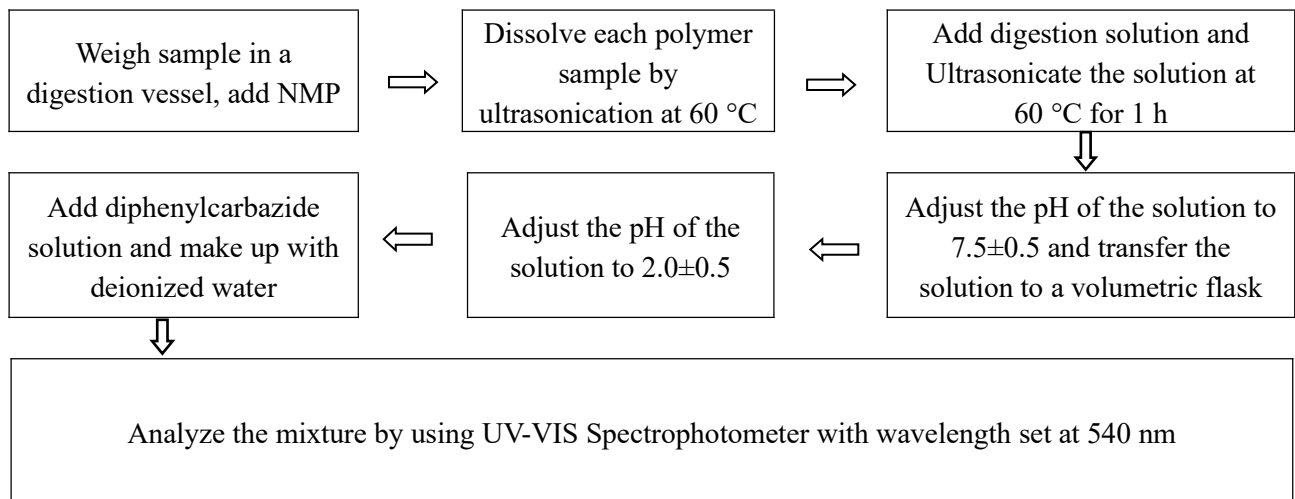
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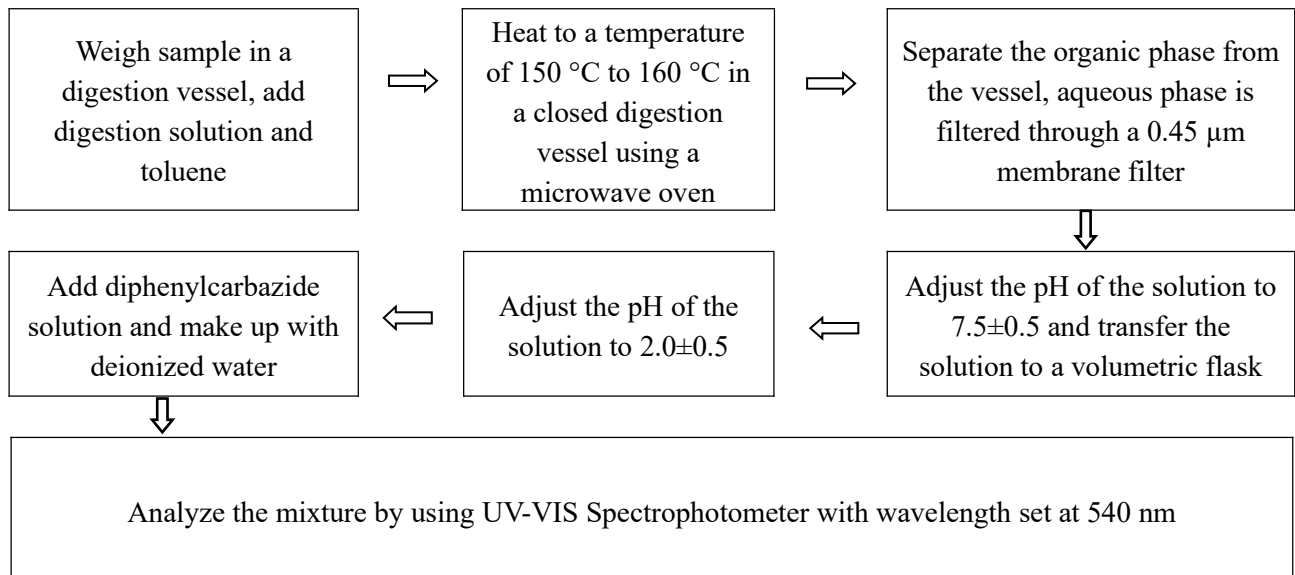
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3) Test for Chromium (VI) Content

a. Soluble polymers:



b. Insoluble/unknown polymers and electronics without Sb



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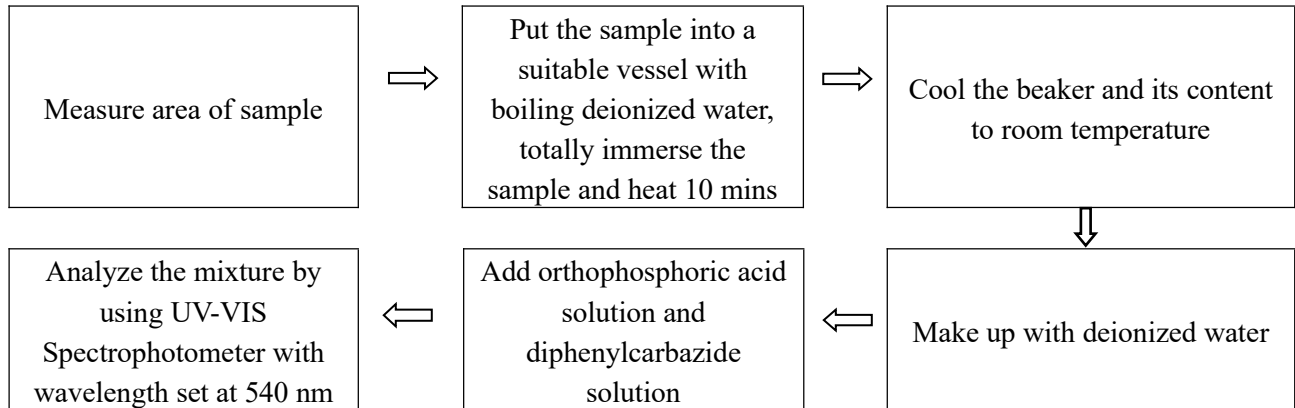
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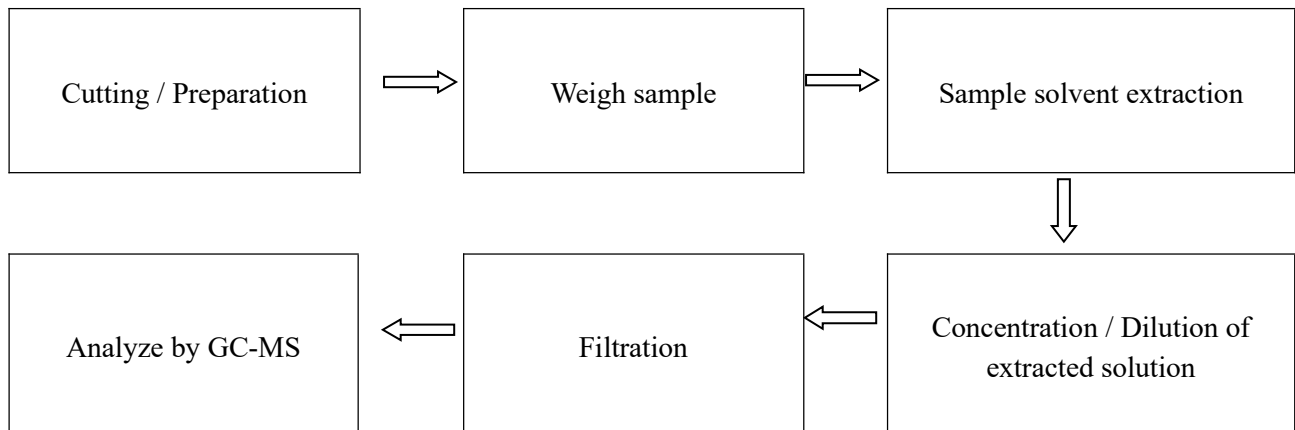
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c. Metal material



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



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Sample Description:

No.	Description
1	Black plastic(cover)
2	Khaki printed black plastic(cover)
3	Black soft plastic(case of type-c plug)
4	Black plastic(case of type-c plug)
5	Black soft plastic(wire jacket)
6	Grey plastic(type-c)
7	Gunmetal metal(O-ring buckle)
8	Silvery metal(type-c)
9	Golden metal(pin of type-c)
10	Black fabric(belt)
11	Green printed brown plastic with coppery metal(PCB)
12	Silvery solder(PCB)
13	White printed black body(resistor,PCB)
14	Black body(resistor,small,PCB)
15	Brown body(capacitor,big,PCB)
16	Brown body(capacitor,middle,PCB)
17	Brown body(capacitor,small,PCB)
18	Brown body(capacitor,mini,PCB)
19	Black body(IC,square,PCB)
20	Black body(IC,rectangle,PCB)
21	Black body(audion,PCB)
22	Black body(4R7,PCB)
23	Black plastic(fastener,PCB)
24	Coppery metal(coil,PCB)
25	Silvery metal(screw)
26	Black metal(screw)
27	Silvery magnet(cylinder)
28	Black plastic(cap)

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No.	Description
29	Silvery metal(stator)
30	Silvery metal(gasket)
31	Silvery metal(needle)
32	Translucent white plastic(fastener)
33	Silvery magnet(cub)
34	Silvery magnet(cube&type-c)
35	Golden metal(plate)
36	Coppery metal(wire)
37	Golden metal(wire)
38	Blue metal(wire)
39	Black plastic(cap)
40	Black plastic(frame)
41	Copper metal(O-ring plate)
42	Silvery solder(on coil)
43	Silvery solder(on wire)
44	Silvery solder(on wire(thin))
45	Silvery solder(on wire(thick))

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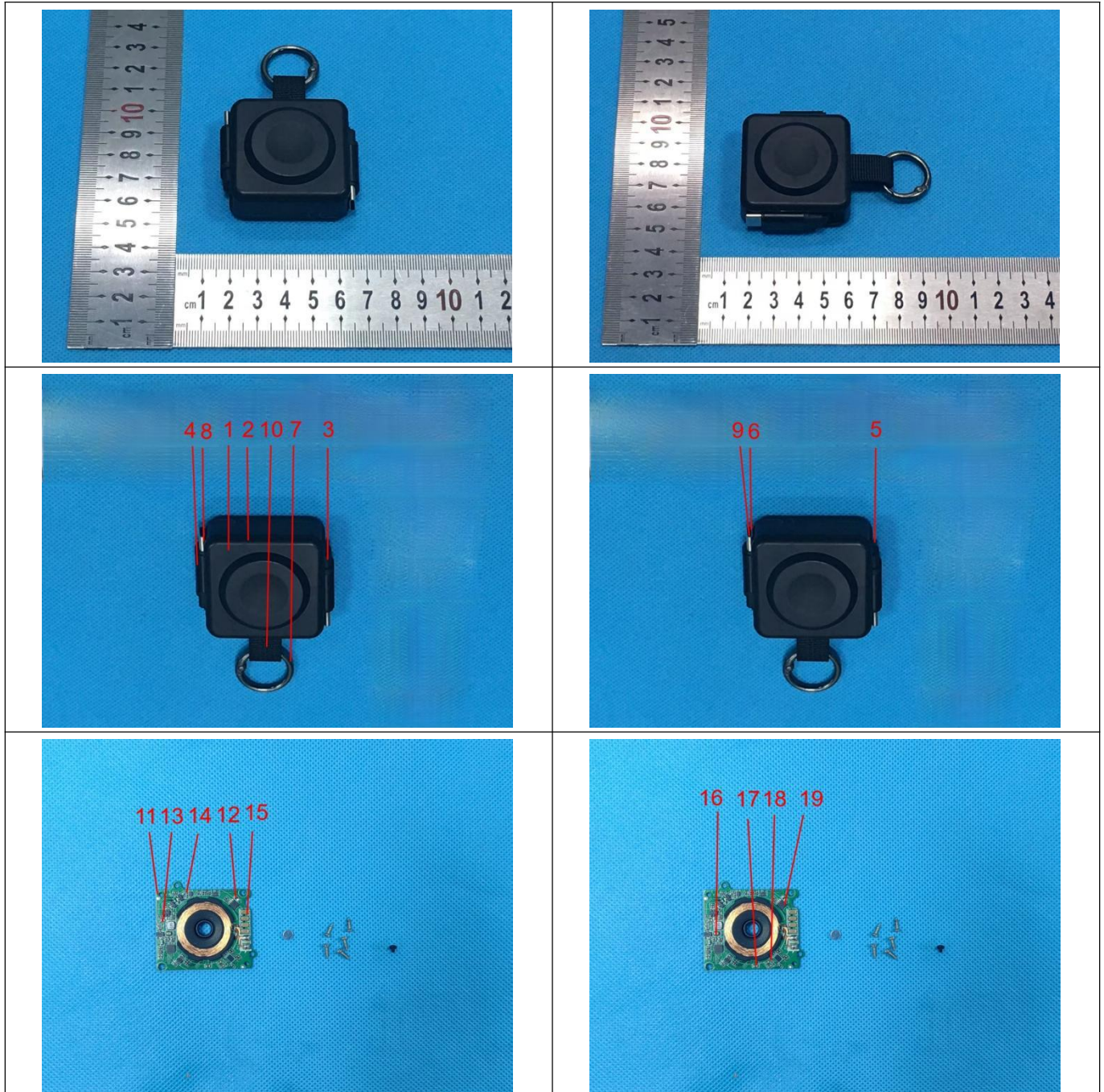
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Photograph(s) of Sample:



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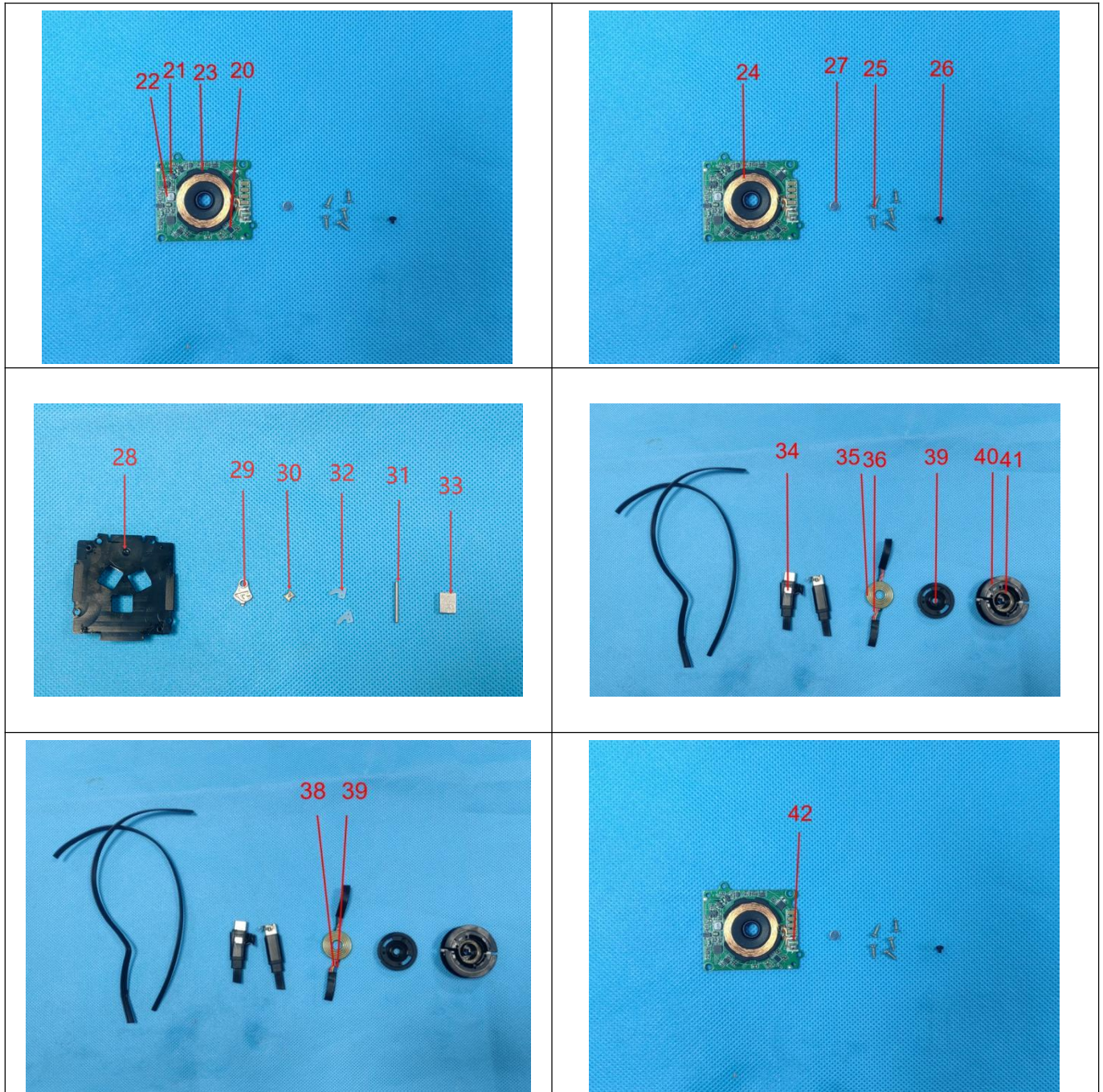
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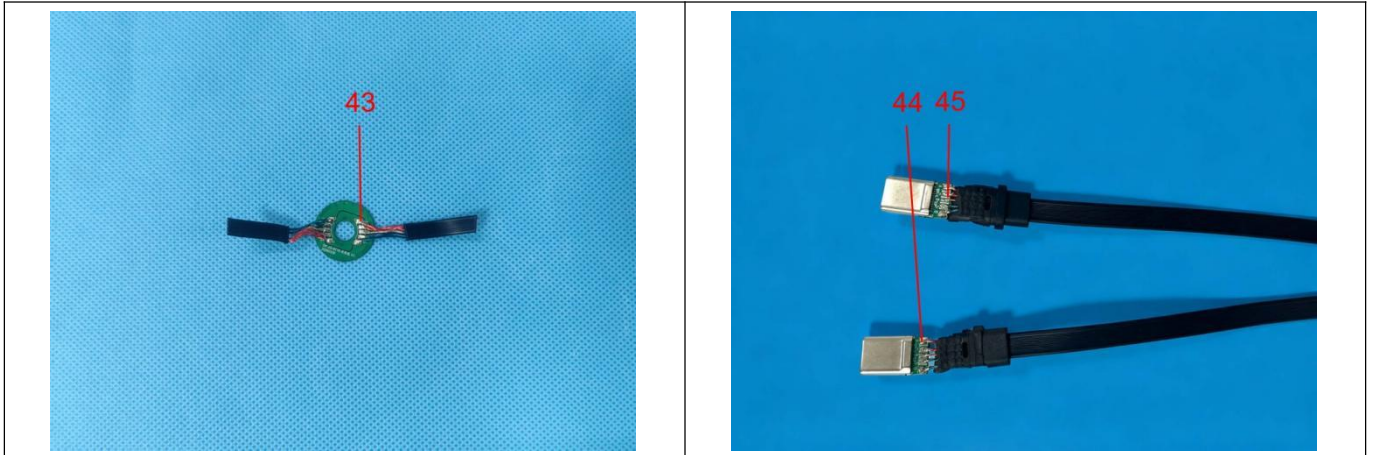
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