



Test Report

Report No.: ULAB-E-E24060048

Date Of Issue: July 24, 2024

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Applicant: SINSEGYE (Shenzhen)Computer System Co.Ltd.

Address: 14th Floor, West Tower of Baidu International Building, 1st Haitian Road, Nanshan District, Shenzhen,China.

The following merchandise were submitted and identified by the clients as:

Sample Name: Industrial Personal Computer

Model No.: SX5100

Other Info: SX5100、SX5164、SX5132、SX5016、SX5032、SX5164H、SX5132H、SX5016H、SX5032H

Date Of Submission: June 19, 2024

Testing Period: From June 19, 2024 to July 2, 2024

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION
Heavy Metals, Flame Retardants and Phthalates Content -European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendment Directive 2015/863/EU	PASS

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

Signed for and on behalf of ULAB TESTING CO.,LTD

Approved by:



Hunter Lin/Manager

ULAB TESTING CO.,LTD.

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Test Item(s)	Component Description(s)	Style(s)
1	White plastic	-
2	Silvery metal with white coating	-
3	Transparent plastic with silvery/red/black coating	-
4	White plastic with rosegolden/black coating	-
5	White plastic with black coating	-
6	Orange plastic	-
7	White plastic with rosegolden/red/black coating	-
8	White plastic	-
9	Champagne adhesive fabric	-
10	Golden metal	-
11	Silvery metal	-
12	Silvery metal	-
13	Silvery metal	-
14	Silvery metal	-
15	Silvery metal	-
16	White plastic with black printing	-
17	Silvery metal	-
18	Grey silicon	-
19	Translucent adhesive soft plastic	-
20	Dull silvery metal	-
21	Dull silvery metal	-
22	Silvery metal	-
23	Silvery metal	-
24	Grey plastic	-
25	Black body	-
26	Coppery metal	-
27	Coppery metal with red coating	-
28	Black magnet with green coating	-
29	Silvery metal	-
30	Silvery metal	-
31	Golden metal	-
32	Black body	-
33	Yellow adhesive soft plastic	-

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Test Item(s)	Component Description(s)	Style(s)
34	Black magnet	-
35	Yellow translucent adhesive soft plastic	-
36	Coppery metal	-
37	Black plastic	-
38	Translucent plastic	-
39	Black plastic	-
40	Translucent body	-
41	Black magnet	-
42	Coppery metal	-
43	Brown body	-
44	Black body	-
45	Grey plastic	-
46	Golden metal	-
47	Black body	-
48	Black body	-
49	Black body	-
50	Black body	-
51	White body	-
52	Black plastic	-
53	Silvery plated golden metal	-
54	White adhesive soft plastic with black printing	-
55	White adhesive soft plastic with black printing	-
56	Black body	-
57	Silvery solder	-
58	Green PCB	-
59	Translucent body	-
60	Transparent plastic	-
61	White adhesive soft plastic with black printing	-
62	Silvery metal	-
63	Silvery metal	-
64	Silvery metal	-
65	Silvery metal	-
66	Silvery metal	-
67	Black plastic	-

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Test Item(s)	Component Description(s)	Style(s)
68	Silvery plated golden metal	-
69	Black plastic	-
70	Silvery metal	-
71	Silvery metal	-
72	Silvery metal	-
73	White plastic	-
74	Black/white body	-
75	Silvery solder	-
76	Green PCB	-
77	Black plastic	-
78	Silvery metal	-
79	Silvery metal	-
80	Blue plastic	-
81	Silvery plated golden metal	-
82	White adhesive soft plastic with black printing	-
83	Silvery metal	-
84	Yellow translucent adhesive soft plastic	-
85	Black plastic	-
86	Silvery plated golden metal	-
87	Translucent plastic	-
88	Black plastic	-
89	Black magnet	-
90	Coppery/red/green metal	-
91	Green PCB	-
92	Silvery metal	-
93	Black plastic	-
94	Silvery plated golden metal	-
95	Black body	-
96	Silvery metal with pink coating	-
97	Brown paper with toner	-
98	Silvery metal with toner	-
99	Grey metal with toner	-
100	Silvery metal	-
101	Black soft plastic	-

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<u>Test Item(s)</u>	<u>Component Description(s)</u>	<u>Style(s)</u>
102	Black body	-
103	Golden body	-
104	Black body	-
105	Black body	-
106	Silvery solder	-
107	Green PCB	-
108	Black glue	-
109	Grey silicon grease	-
110	Silvery metal	-
111	Black plastic	-
112	Black body	-
113	Silvery body	-
114	Blue PCB	-
115	Grey magnet	-
116	Black magnet	-
117	Black body with white printing	-
118	Silvery metal	-
119	Black plastic	-
120	Black plastic	-
121	Silvery metal	-
122	Silvery metal	-
123	Red metal	-
124	Silvery metal	-
125	Silvery solder	-
126	Beige PCB	-
127	Black glue	-
128	Black body with grey printing	-
129	Black body	-
130	White/yellow adhesive soft plastic with black printing	-
131	Black body	-
132	Beige plastic	-
133	White plastic	-
134	Silvery solder	-
135	Green PCB	-

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<u>Test Item(s)</u>	<u>Component Description(s)</u>	<u>Style(s)</u>
136	White soft glue	-
137	Silvery metal with red coating	-
138	Yellow adhesive translucent soft plastic	-
139	Black paper with liquid	-
140	Silvery metal	-
141	Silvery metal with black coating	-
142	Black plastic	-
143	Brown plastic	-
144	Black magnet	-
145	Coppery metal	-
146	Silvery solder	-
147	Green PCB	-

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Test Result(s)

Heavy Metals, Flame Retardants Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments Commission Delegated Directive (EU) 2015/863

Test Method : IEC62321-3-1:2013, IEC62321-5:2013, IEC62321-6:2015, IEC62321-7-1:2015, IEC 62321-7-2:2017, analyzed by EDXRF & ICP-OES & AAS & GC-MS & UV-Vis.

Parameter	Result(mg/kg)						Conclusion
	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs	PBDEs	
Test Item(s)	-	-	-	-	-	-	-
1.	BL	BL	BL	BL	BL	BL	PASS
2.	BL	BL	BL	BL	NA	NA	PASS
3.	BL	BL	BL	BL	BL	BL	PASS
4.	BL	BL	BL	BL	ND	ND	PASS
5.	BL	BL	BL	BL	ND	ND	PASS
6.	BL	BL	BL	BL	BL	BL	PASS
7.	BL	BL	BL	BL	ND	ND	PASS
8.	BL	BL	BL	BL	BL	BL	PASS
9.	BL	BL	BL	BL	BL	BL	PASS
10.	18606 [#]	BL	BL	BL	NA	NA	EXEMPTED
11.	BL	BL	BL	BL	NA	NA	PASS
12.	BL	BL	BL	Negative	NA	NA	PASS
13.	BL	BL	BL	BL	NA	NA	PASS
14.	BL	BL	BL	BL	NA	NA	PASS
15.	BL	BL	BL	BL	NA	NA	PASS
16.	BL	BL	BL	BL	ND	ND	PASS
17.	BL	BL	BL	Negative	NA	NA	PASS
18.	BL	BL	BL	BL	BL	BL	PASS
19.	BL	BL	BL	BL	BL	BL	PASS
20.	BL	BL	BL	Negative	NA	NA	PASS
21.	BL	BL	BL	Negative	NA	NA	PASS
22.	BL	BL	BL	Negative	NA	NA	PASS
23.	BL	BL	BL	Negative	NA	NA	PASS
24.	BL	BL	BL	BL	BL	BL	PASS
25.	BL	BL	BL	BL	BL	BL	PASS
26.	BL	BL	BL	BL	NA	NA	PASS

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Parameter	Result(mg/kg)						Conclusion
	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs	PBDEs	
Test Item(s)	-	-	-	-	-	-	-
27.	BL	BL	BL	BL	NA	NA	PASS
28.	BL	BL	BL	BL	BL	BL	PASS
29.	BL	BL	BL	BL	NA	NA	PASS
30.	BL	BL	BL	Negative	NA	NA	PASS
31.	BL	BL	BL	BL	NA	NA	PASS
32.	BL	BL	BL	BL	BL	BL	PASS
33.	BL	BL	BL	BL	BL	BL	PASS
34.	BL	BL	BL	BL	BL	BL	PASS
35.	BL	BL	BL	BL	BL	BL	PASS
36.	BL	BL	BL	BL	NA	NA	PASS
37.	BL	BL	BL	BL	BL	BL	PASS
38.	BL	BL	BL	BL	BL	BL	PASS
39.	BL	BL	BL	BL	BL	BL	PASS
40.	BL	BL	BL	BL	BL	BL	PASS
41.	BL	BL	BL	BL	BL	BL	PASS
42.	BL	BL	BL	Negative	NA	NA	PASS
43.	BL	BL	BL	BL	BL	BL	PASS
44.	BL	BL	BL	BL	BL	BL	PASS
45.	BL	BL	BL	BL	BL	BL	PASS
46.	BL	BL	BL	BL	NA	NA	PASS
47.	BL	BL	BL	BL	BL	BL	PASS
48.	BL	BL	BL	BL	BL	BL	PASS
49.	BL	BL	BL	BL	BL	BL	PASS
50.	BL	BL	BL	BL	BL	BL	PASS
51.	BL	BL	BL	BL	BL	BL	PASS
52.	BL	BL	BL	BL	ND	ND	PASS
53.	BL	BL	BL	BL	NA	NA	PASS
54.	BL	BL	BL	BL	BL	BL	PASS
55.	BL	BL	BL	BL	BL	BL	PASS
56.	BL	BL	BL	BL	BL	BL	PASS
57.	BL	BL	BL	BL	NA	NA	PASS
58.	BL	BL	BL	BL	ND	ND	PASS
59.	BL	BL	BL	BL	BL	BL	PASS
60.	BL	BL	BL	BL	ND	ND	PASS

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Parameter	Result(mg/kg)						Conclusion
	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs	PBDEs	
Test Item(s)	-	-	-	-	-	-	-
61.	BL	BL	BL	BL	BL	BL	PASS
62.	BL	BL	BL	BL	NA	NA	PASS
63.	BL	BL	BL	Negative	NA	NA	PASS
64.	BL	BL	BL	Negative	NA	NA	PASS
65.	BL	BL	BL	Negative	NA	NA	PASS
66.	BL	BL	BL	BL	NA	NA	PASS
67.	BL	BL	BL	BL	BL	BL	PASS
68.	BL	BL	BL	BL	NA	NA	PASS
69.	BL	BL	BL	BL	BL	BL	PASS
70.	BL	BL	BL	BL	NA	NA	PASS
71.	BL	BL	BL	Negative	NA	NA	PASS
72.	BL	BL	BL	BL	NA	NA	PASS
73.	BL	BL	BL	BL	BL	BL	PASS
74.	BL	BL	BL	BL	BL	BL	PASS
75.	BL	BL	BL	BL	NA	NA	PASS
76.	BL	BL	BL	BL	BL	BL	PASS
77.	BL	BL	BL	BL	BL	BL	PASS
78.	BL	BL	BL	BL	NA	NA	PASS
79.	BL	BL	BL	Negative	NA	NA	PASS
80.	BL	BL	BL	BL	ND	ND	PASS
81.	BL	BL	BL	BL	NA	NA	PASS
82.	BL	BL	BL	BL	BL	BL	PASS
83.	BL	BL	BL	BL	NA	NA	PASS
84.	BL	BL	BL	BL	BL	BL	PASS
85.	BL	BL	BL	BL	BL	BL	PASS
86.	BL	BL	BL	BL	NA	NA	PASS
87.	BL	BL	BL	BL	BL	BL	PASS
88.	BL	BL	BL	BL	BL	BL	PASS
89.	BL	BL	BL	BL	BL	BL	PASS
90.	BL	BL	BL	BL	NA	NA	PASS
91.	BL	BL	BL	BL	ND	ND	PASS
92.	BL	BL	BL	BL	NA	NA	PASS
93.	BL	BL	BL	BL	BL	BL	PASS
94.	BL	BL	BL	BL	NA	NA	PASS

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Parameter	Result(mg/kg)						Conclusion
	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs	PBDEs	
Test Item(s)	-	-	-	-	-	-	-
95.	BL	BL	BL	BL	BL	BL	PASS
96.	BL	BL	BL	BL	NA	NA	PASS
97.	BL	BL	BL	BL	BL	BL	PASS
98.	BL	BL	BL	BL	NA	NA	PASS
99.	BL	BL	BL	BL	NA	NA	PASS
100.	BL	BL	BL	BL	NA	NA	PASS
101.	BL	BL	BL	BL	BL	BL	PASS
102.	BL	BL	BL	BL	ND	ND	PASS
103.	BL	BL	BL	BL	BL	BL	PASS
104.	BL	BL	BL	BL	BL	BL	PASS
105.	BL	BL	BL	BL	BL	BL	PASS
106.	BL	BL	BL	BL	NA	NA	PASS
107.	BL	BL	BL	BL	ND	ND	PASS
108.	BL	BL	BL	BL	BL	BL	PASS
109.	BL	BL	BL	BL	BL	BL	PASS
110.	BL	BL	BL	BL	NA	NA	PASS
111.	BL	BL	BL	BL	ND	ND	PASS
112.	BL	BL	BL	BL	BL	BL	PASS
113.	BL	BL	BL	BL	BL	BL	PASS
114.	BL	BL	BL	BL	BL	BL	PASS
115.	BL	BL	BL	BL	BL	BL	PASS
116.	BL	BL	BL	BL	BL	BL	PASS
117.	BL	BL	BL	BL	BL	BL	PASS
118.	BL	BL	BL	Negative	NA	NA	PASS
119.	BL	BL	BL	BL	BL	BL	PASS
120.	BL	BL	BL	BL	ND	ND	PASS
121.	BL	BL	BL	BL	NA	NA	PASS
122.	BL	BL	BL	BL	NA	NA	PASS
123.	BL	BL	BL	BL	NA	NA	PASS
124.	BL	BL	BL	BL	NA	NA	PASS
125.	BL	BL	BL	BL	NA	NA	PASS
126.	BL	BL	BL	BL	BL	BL	PASS
127.	BL	BL	BL	BL	ND	ND	PASS
128.	BL	BL	BL	BL	BL	BL	PASS

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Parameter	Result(mg/kg)						Conclusion
	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs	PBDEs	
Test Item(s)	-	-	-	-	-	-	-
129.	BL	BL	BL	BL	BL	BL	PASS
130.	BL	BL	BL	BL	BL	BL	PASS
131.	BL	BL	BL	BL	BL	BL	PASS
132.	BL	BL	BL	BL	ND	ND	PASS
133.	BL	BL	BL	BL	ND	ND	PASS
134.	BL	BL	BL	BL	NA	NA	PASS
135.	BL	BL	BL	BL	ND	ND	PASS
136.	BL	BL	BL	BL	BL	BL	PASS
137.	BL	BL	BL	BL	NA	NA	PASS
138.	BL	BL	BL	BL	BL	BL	PASS
139.	BL	BL	BL	BL	BL	BL	PASS
140.	BL	BL	BL	BL	NA	NA	PASS
141.	BL	BL	BL	BL	NA	NA	PASS
142.	BL	BL	BL	BL	BL	BL	PASS
143.	BL	BL	BL	BL	ND	ND	PASS
144.	BL	BL	BL	BL	BL	BL	PASS
145.	BL	BL	BL	BL	NA	NA	PASS
146.	BL	BL	BL	BL	NA	NA	PASS
147.	BL	BL	BL	BL	ND	ND	PASS

Remark:

(1) ①The test results shown as “BL” are obtained by EDXRF for primary screening (for Cr (VI), the EDXRF screening result is expressed as Cr, and for PBBs and PBDEs, the EDXRF screening results are expressed as Br), and the test results shown as exact data are obtained by further wet chemical testing by ICP-OES (for Cd, Pb, Hg), AAS (for Cd, Pb), UV-VIS (for Cr (VI)) and GC-MS (for PBBs and PBDEs).

②The EDXRF screening test for RoHS elements - The reading may be different to the actual content in the sample be of non-uniformity composition.

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Unit: mg/kg

Element	Polymers	Metal	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	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$

③OL = Over Limit, BL = Below Limit, X = Inconclusive, NA = Not Applicable.

Units and limits:

Restricted Substances	Pb	Cd	Hg	Cr (VI)	PBBs	PBDEs
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
limit	1000	100	1000	1000	1000	1000

(2) ①mg/kg = ppm = 0.0001%, ND = Not Detected (Less than RL).

②Unit and RL (Reporting limit) in wet chemical test.

Restricted Substances	Pb	Cd	Hg	Cr (VI)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RL	10	10	10	10	50	50

③ According to IEC 62321-7-1:2015, result on Cr (VI) for metal sample is shown as Positive/Negative. Negative = Absence of Cr (VI) coating, Positive = Presence of Cr (VI) coating. Storage condition 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.

(3) # = Per applicant's declaration, according to exemption list clause 6(c) Copper alloy containing up to 4% lead by weight, the tested material was exempted.

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Phthalates Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments Commission Delegated Directive (EU) 2015/863

Test Method: IEC 62321-8:2017, Analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Analytes	Result (mg/kg)			Requirement (mg/kg)
	1+2+3+4+5+6	7+8+16+24+37+38	9+19+33+35+54+55	
Dibutyl phthalate (DBP)	ND	ND	ND	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	1000
Di-(iso-butyl) phthalate (DIBP)	ND	ND	ND	1000
Conclusion	PASS	PASS	PASS	-

Analytes	Result (mg/kg)			Requirement (mg/kg)
	18+101+108+109	39+45+52+58+60+67	61+82+84+130+136+138	
Dibutyl phthalate (DBP)	ND	ND	ND	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	1000
Di-(iso-butyl) phthalate (DIBP)	ND	ND	ND	1000
Conclusion	PASS	PASS	PASS	-

Analytes	Result (mg/kg)		Requirement (mg/kg)
	69+73+76+77+80+85	87+88+91+93+107+111	
Dibutyl phthalate (DBP)	ND	ND	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	1000
Di-(iso-butyl) phthalate (DIBP)	ND	ND	1000
Conclusion	PASS	PASS	-

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Analytes	Result (mg/kg)		Requirement (mg/kg)
	114+119+120+126+127+132	133+135+142+143+147	
Dibutyl phthalate (DBP)	ND	ND	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	1000
Di-(iso-butyl) phthalate (DIBP)	ND	ND	1000
Conclusion	PASS	PASS	-

Note / Key:

ND = Not detected

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

MDL= Method Detection Limit = 50mg/kg.

The composite test sample(s) of the submitted samples was prepared in the manner requested by the client, when subject to the test performed

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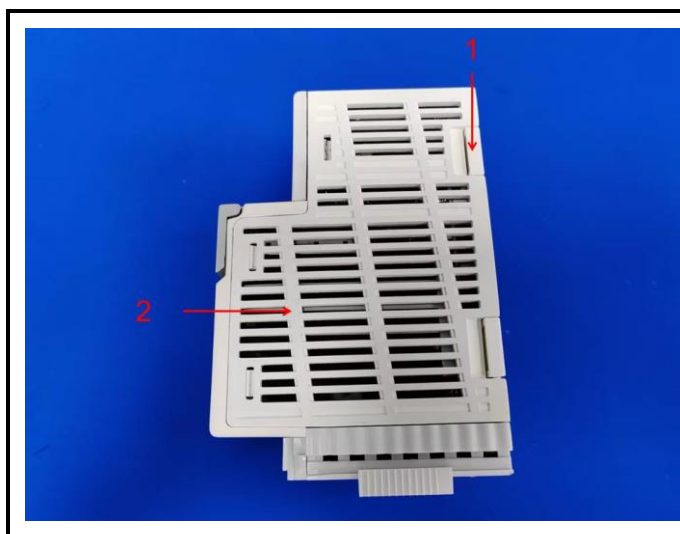
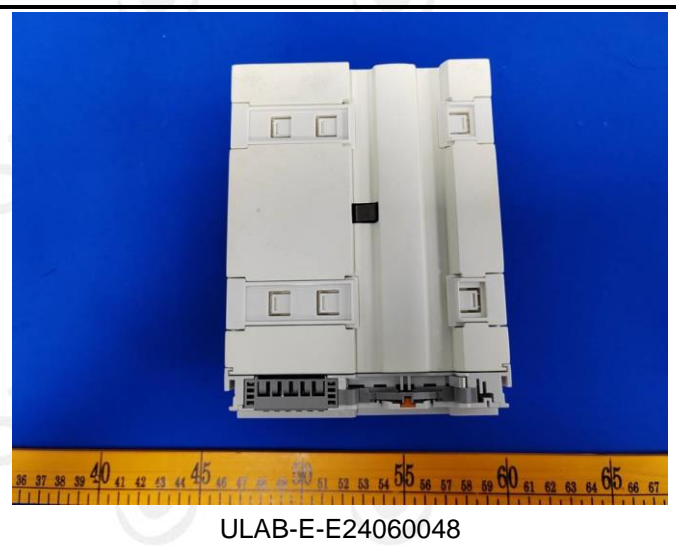
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Photo of the Submitted Sample



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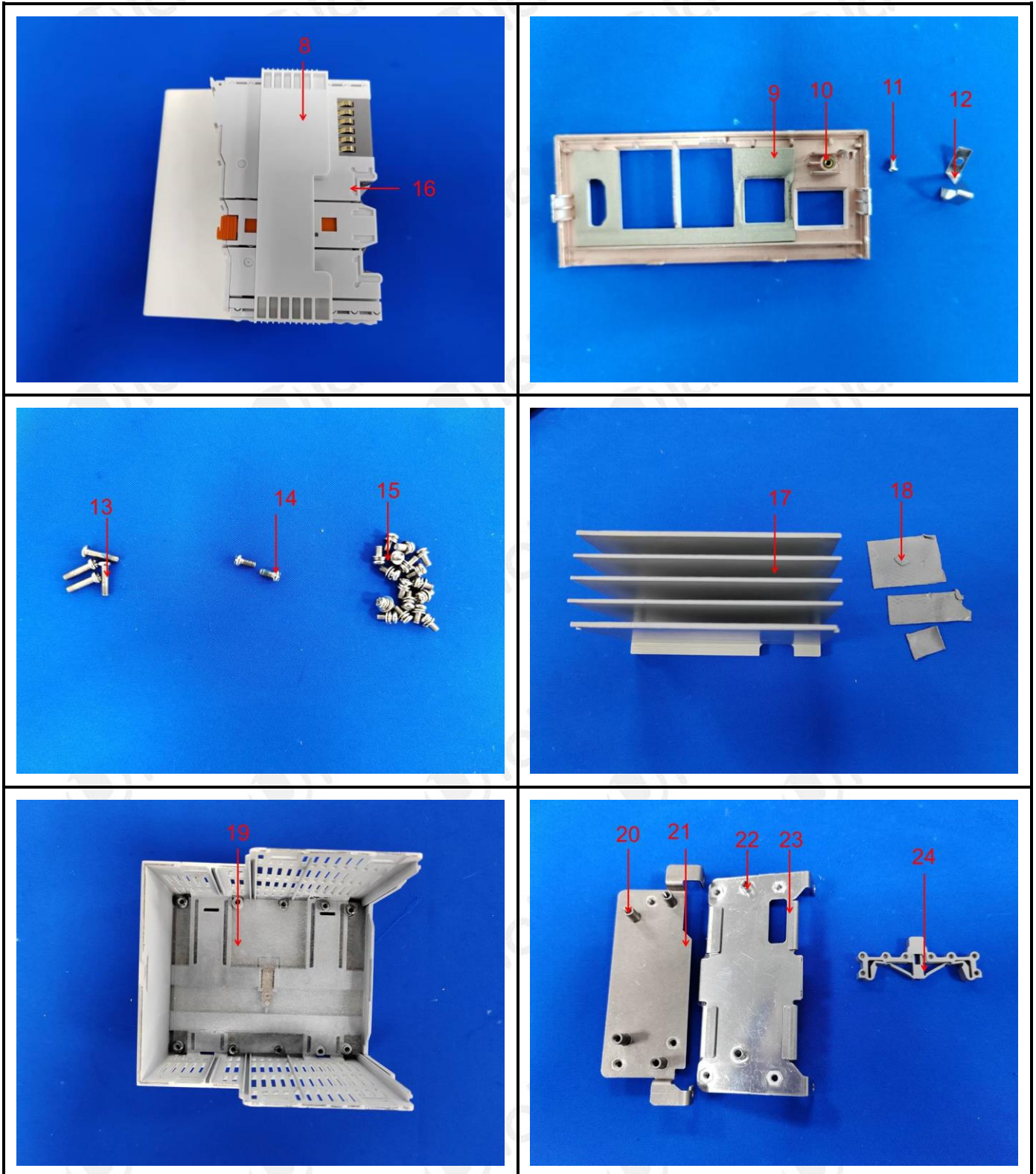
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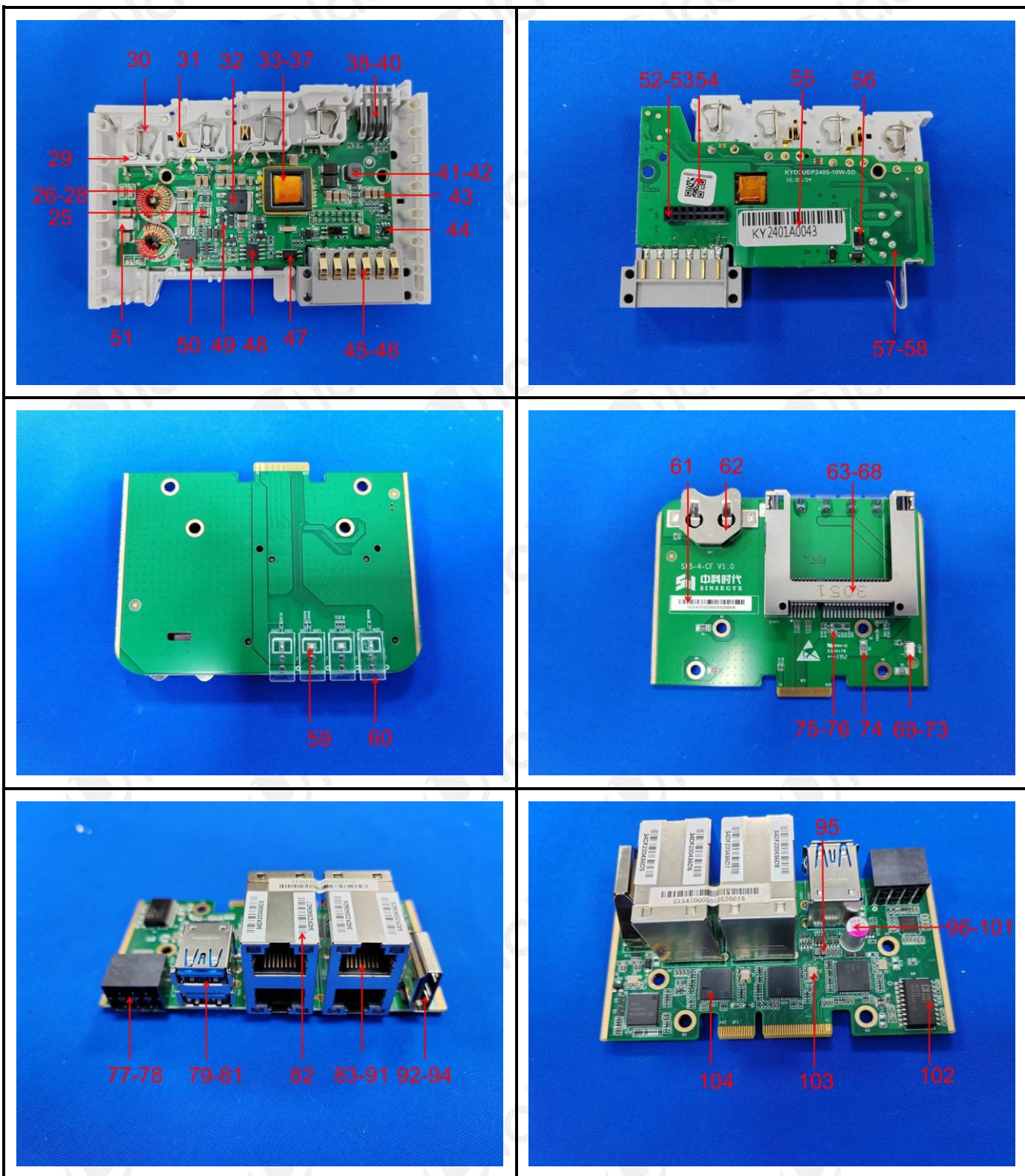
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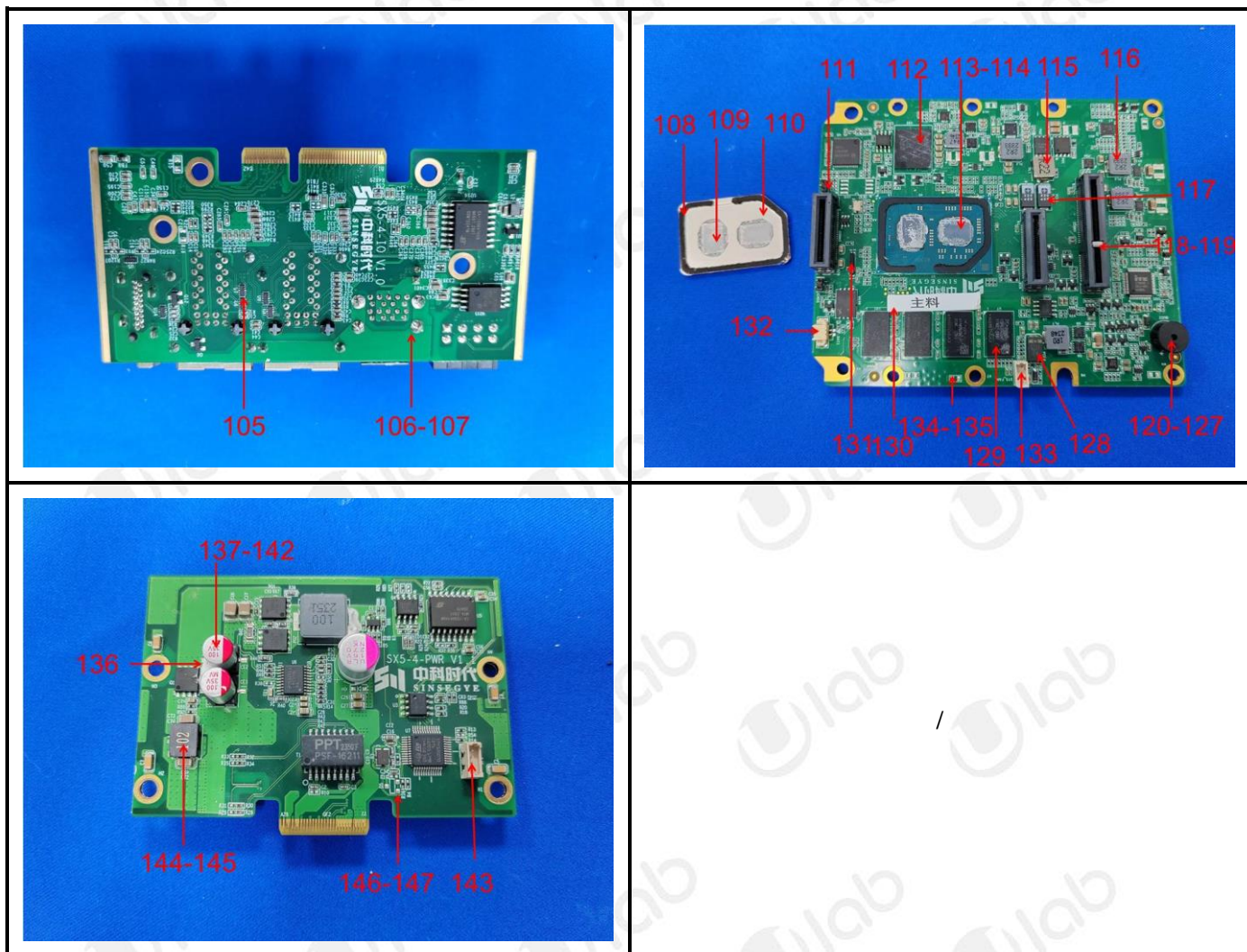
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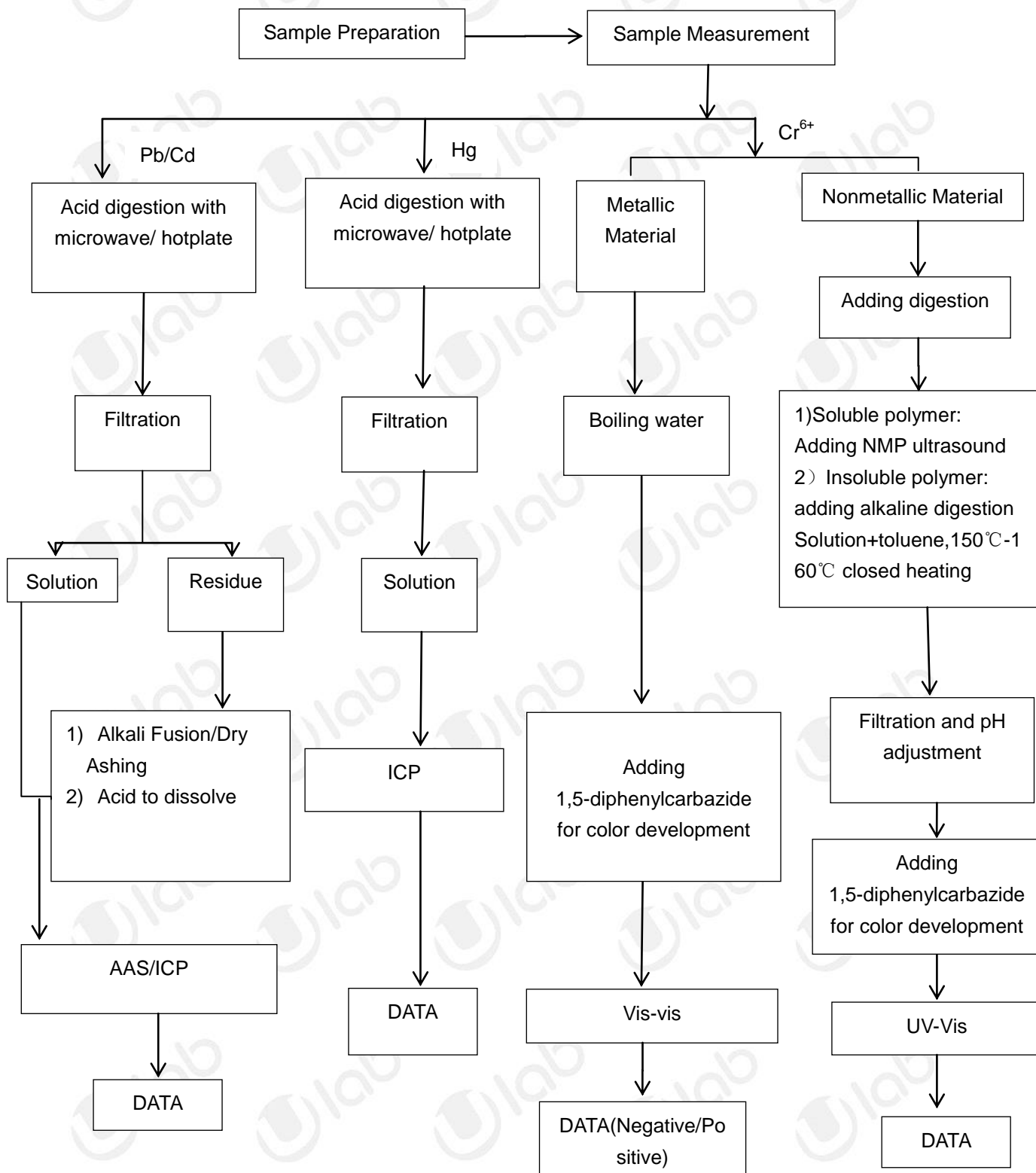
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Pb/Cd/Hg/Cr⁶⁺ Testing Flow Chart



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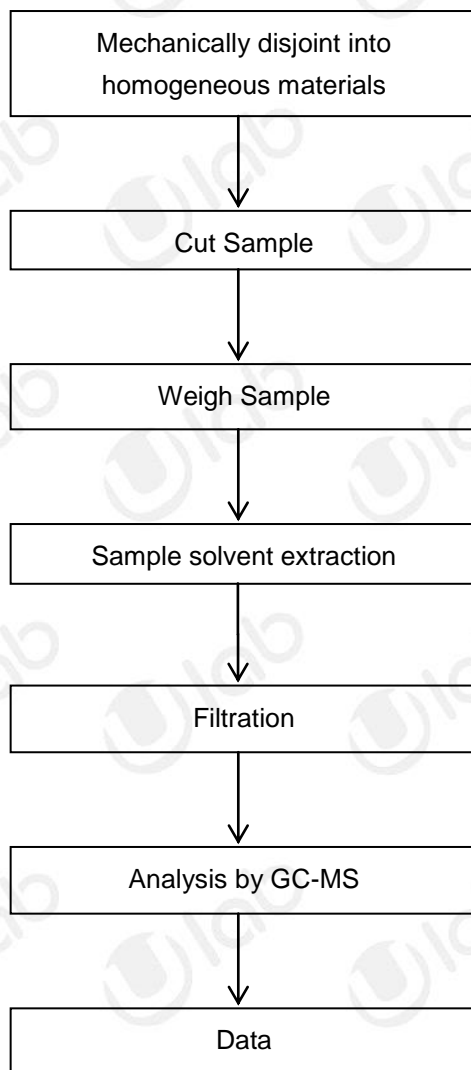
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PBBs/PBDEs Testing Flow Chart or Phthalates Testing Flow Chart



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