



Verification Report

Applicant : Zhejiang Chisage New Energy Technology Co., Ltd.
Address : No.1828, Fuqing South Road, Panhuo Street, Yinzhou District, Ningbo City,
Zhejiang Province, China 315000

Report on the submitted samples said to be:

Sample Name(s) : Portable power station
Trade Mark : CHISAGE
Part No. : CE-P1000CS
Sample Received Date : September 28, 2022
Testing Period : September 28, 2022 ~ October 11, 2022
Date of Report : March 27, 2023
Testing Location : 901, No.40 Building, Xialang Industrial Zone, Heshuikou Community,
Matian Street, Guangming District, Shenzhen, Guangdong, China
Results : Please refer to next page(s).

TEST REQUEST	CONCLUSION
As specified by client, based on the performed tests on submitted sample, the result of Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), PBBs, PBDEs, Dibutyl Phthalate(DBP), Butylbenzyl Phthalate(BBP), Di-2-ethylhexyl Phthalate(DEHP) and Diisobutyl phthalate(DIBP) content comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.	PASS

Signed for and on behalf of LCS

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**Results:****A. EU RoHS Directive 2011/65/EU and its amendment directives**

Test method: With reference to IEC 62321-1:2013&IEC 62321-2:2021&IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Sample No.	Sample Description	Results						Date of sample submission/ Resubmission
		Cd	Pb	Hg	Cr▼	Br▼		
						PBBs	PBDEs	
1	Black plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
2	Transparent plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
3	White plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
4	Yellow plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
5	White plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
6	White LED lamp bead	BL	BL	BL	BL	BL	BL	2022-09-28
7	Silver metal sheet	BL	BL	BL	BL	/	/	2022-09-28
8	Silver metal sheet	BL	BL	BL	BL	/	/	2022-09-28
9	Black plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
10	Silver metal sheet	BL	BL	BL	BL	/	/	2022-09-28
11	Silver metal sheet	BL	BL	BL	BL	/	/	2022-09-28
12	Red plastic thread cover	BL	BL	BL	BL	BL	BL	2022-09-28
13	Red plastic thread cover	BL	BL	BL	BL	BL	BL	2022-09-28
14	Silver wire	BL	BL	BL	BL	/	/	2022-09-28
15	Yellow plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
17	Silver metal nut	BL	BL	BL	BL	/	/	2022-09-28
18	Black plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
19	Black glass sheet	BL	BL	BL	BL	BL	BL	2022-09-28
20	White plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
21	Transparent plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
22	PCB board	BL	BL	BL	BL	BL	BL	2022-09-28
23	Tin solder	BL	BL	BL	BL	/	/	2022-09-28
24	Black IC	BL	BL	BL	BL	BL	BL	2022-09-28
25	Black chip diode	BL	BL	BL	BL	BL	BL	2022-09-28
26	Black chip resistor	BL	BL	BL	BL	BL	BL	2022-09-28
27	Grey inductance	BL	BL	BL	BL	BL	BL	2022-09-28
28	Silver inductor	BL	BL	BL	BL	BL	BL	2022-09-28
29	Yellow plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
30	Black IC	BL	BL	BL	BL	BL	BL	2022-09-28





Sample No.	Sample Description	Results						Date of sample submission/ Resubmission
		Cd	Pb	Hg	Cr▼	Br▼		
						PBBs	PBDEs	
31	Yellow LED Beads	BL	BL	BL	BL	BL	BL	2022-09-28
32	Black plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
33	Silver metal sheet	BL	BL	BL	BL	/	/	2022-09-28
34	Black magnet	BL	BL	BL	BL	/	/	2022-09-28
35	Gold wire	BL	BL	BL	BL	/	/	2022-09-28
36	Silver metal sheet	BL	BL	BL	BL	/	/	2022-09-28
37	PCB board	BL	BL	BL	BL	BL	BL	2022-09-28
38	Silver metal sheet	BL	BL	BL	BL	/	/	2022-09-28
39	Blue plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
40	Silver metal needle	BL	BL	BL	BL	/	/	2022-09-28
41	Silver metal sheet	BL	BL	BL	BL	/	/	2022-09-28
42	Silver metal sheet	BL	BL	BL	BL	/	/	2022-09-28
43	Silver metal needle	BL	BL	BL	BL	/	/	2022-09-28
44	Black plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
45	Yellow tape	BL	BL	BL	BL	BL	BL	2022-09-28
46	Grey ceramic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
47	Black plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
48	Gold wire	BL	BL	BL	BL	/	/	2022-09-28
49	Silver metal sheet	BL	BL	BL	BL	/	/	2022-09-28
50	Silver metal sheet	BL	BL	BL	BL	/	/	2022-09-28
51	Gray sheet metal	BL	BL	BL	BL	/	/	2022-09-28
52	Brown wet paper	BL	BL	BL	BL	BL	BL	2022-09-28
53	Black plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
54	Silver metal needle	BL	BL	BL	BL	/	/	2022-09-28
55	Black IC	BL	BL	BL	BL	BL	BL	2022-09-28
56	Black plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
57	Black IC	BL	BL	BL	BL	BL	BL	2022-09-28
58	Black chip resistor	BL	BL	BL	BL	BL	BL	2022-09-28
59	Tin solder	BL	BL	BL	BL	/	/	2022-09-28
60	Black IC	BL	BL	BL	BL	BL	BL	2022-09-28
61	Brown chip capacitor	BL	BL	BL	BL	BL	BL	2022-09-28
62	Black plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
63	Yellow plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
64	Black plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
65	Silver metal sheet	BL	BL	BL	BL	/	/	2022-09-28



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 901, No.40 Building, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, Guangdong, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



Sample No.	Sample Description	Results						Date of sample submission/ Resubmission
		Cd	Pb	Hg	Cr▼	Br▼		
						PBBs	PBDEs	
66	Silver metal sheet	BL	BL	BL	BL	/	/	2022-09-28
67	Copper metal spring	BL	BL	BL	BL	/	/	2022-09-28
68	Silver metal sheet	BL	BL	BL	BL	/	/	2022-09-28
69	Ferrous metal screw	BL	BL	BL	BL	/	/	2022-09-28
70	Ferrous metal nut	BL	BL	BL	BL	/	/	2022-09-28
71	Silver metal sheet	BL	BL	BL	BL	/	/	2022-09-28
72	Transparent glass sheet	BL	BL	BL	BL	BL	BL	2022-09-28
73	Silver metal sheet	BL	BL	BL	BL	/	/	2022-09-28
74	Black plastic wire cover	BL	BL	BL	BL	BL	BL	2022-09-28
75	Black plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
76	Red plastic thread cover	BL	BL	BL	BL	BL	BL	2022-09-28
77	Black plastic wire cover	BL	BL	BL	BL	BL	BL	2022-09-28
78	Gold wire	BL	BL	BL	BL	/	/	2022-09-28
79	Black plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
80	Silver metal sheet	BL	BL	BL	BL	/	/	2022-09-28
81	Silver metal sheet	BL	BL	BL	BL	/	/	2022-09-28
82	Red plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
83	Black plastic wire cover	BL	BL	BL	BL	BL	BL	2022-09-28
84	Black plastic wire cover	BL	BL	BL	BL	BL	BL	2022-09-28
85	Red plastic thread cover	BL	BL	BL	BL	BL	BL	2022-09-28
86	Gold wire	BL	BL	BL	BL	/	/	2022-09-28
87	Black plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
88	Silver metal needle	BL	BL	BL	BL	/	/	2022-09-28
89	Silver metal sheet	BL	BL	BL	BL	/	/	2022-09-28
90	Black plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
91	Black plastic wire cover	BL	BL	BL	BL	BL	BL	2022-09-28
92	Blue plastic thread cover	BL	BL	BL	BL	BL	BL	2022-09-28
93	Brown plastic thread cover	BL	BL	BL	BL	BL	BL	2022-09-28
94	Yellow green plastic thread cover	BL	BL	BL	BL	BL	BL	2022-09-28
95	Gold wire	BL	BL	BL	BL	/	/	2022-09-28
96	Black plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28



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Sample No.	Sample Description	Results						Date of sample submission/ Resubmission
		Cd	Pb	Hg	Cr▼	Br▼		
						PBBs	PBDEs	
97	Silver metal screw	BL	BL	BL	BL	/	/	2022-09-28
98	Silver metal screw	BL	BL	BL	BL	/	/	2022-09-28
99	White plastic sheet	BL	BL	BL	BL	BL	BL	2022-09-28
100	Silver metal screw	BL	BL	BL	BL	/	/	2022-09-28
101	Silver metal screw	BL	BL	BL	BL	/	/	2022-09-28

Note:

- Results were obtained by XRF for primary screening, 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 below warning value according to IEC 62321-3-1:2013(Unit: mg/kg).

Element	Polymers	Metals	Composite material
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
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	$BL \leq (300-3\sigma) < X$	N/A	$BL \leq (250-3\sigma) < X$

Remark:

- BL= Below Limit
 - OL= Over Limit
 - X= The range of needing to do further testing
 - 3σ = The reproducibility of analytical instruments
 - N/A= Not applicable
 - LOD= Detection limit
- The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
 - The maximum permissible limit is quoted from the document RoHS Directive 2011/65/EU with amendment (EU) 2015/863.
 - ▼=For restricted substances PBBs and PBDEs, the results show the total Br content, the restricted substance was Cr(VI), and the results showed the total Cr content.





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
Dibutyl Phthalate(DBP)	1000
Butylbenzyl Phthalate(BBP)	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	1000
Diisobutyl phthalate(DIBP)	1000

Disclaimers:

This XRF Screening 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 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.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.



**B. EU RoHS Directive 2011/65/EU with amendment (EU) 2015/863 on Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), PBBs, PBDEs, DBP, BBP, DEHP & DIBP content****Test method:****Lead(Pb) & Cadmium(Cd) Content:**

With reference to IEC 62321-5:2013, by acid digestion and analysis was performed by inductively coupled plasma optical emission spectrometer (ICP-OES) or atomic absorption spectrometer (AAS).

Mercury(Hg) Content:

With reference to IEC 62321-4:2013+AMD1:2017 CSV, by acid digestion and analysis was performed by inductively coupled plasma optical emission spectrometer (ICP-OES).

Hexavalent Chromium(Cr(VI)) Content:

With reference to IEC 62321-7-1:2015 or IEC 62321-7-2:2017, analysis was performed by UV-visible spectrophotometer (UV-Vis).

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

Phthalates(DBP, BBP, DEHP & DIBP) Content:

With reference to IEC 62321-8:2017, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

1) The test results of Phthalates(DBP, BBP, DEHP & DIBP)

Tested Items	MDL (mg/kg)	Results (mg/kg)	Limit (mg/kg)
		2+3+4+5+6+9	
Dibutyl Phthalate(DBP) Content	600	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000

Tested Items	MDL (mg/kg)	Results (mg/kg)	Limit (mg/kg)
		12+13+15+18+19+20	
Dibutyl Phthalate(DBP) Content	600	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000





Tested Items	MDL (mg/kg)	Results (mg/kg)	Limit (mg/kg)
		21+22+24+25+26+27	
Dibutyl Phthalate(DBP) Content	600	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000

Tested Items	MDL (mg/kg)	Results (mg/kg)	Limit (mg/kg)
		28+29+30+31+32+37	
Dibutyl Phthalate(DBP) Content	600	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000

Tested Items	MDL (mg/kg)	Results (mg/kg)	Limit (mg/kg)
		39+44+45+46+47+52	
Dibutyl Phthalate(DBP) Content	600	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000

Tested Items	MDL (mg/kg)	Results (mg/kg)	Limit (mg/kg)
		53+55+56+57+58+60	
Dibutyl Phthalate(DBP) Content	600	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000





Tested Items	MDL (mg/kg)	Results (mg/kg)	Limit (mg/kg)
		61+62+63+64+72+75	
Dibutyl Phthalate(DBP) Content	600	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000

Tested Items	MDL (mg/kg)	Results (mg/kg)	Limit (mg/kg)
		76+77+79+82+83+84	
Dibutyl Phthalate(DBP) Content	600	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000

Tested Items	MDL (mg/kg)	Results (mg/kg)	Limit (mg/kg)
		85+87+90+91+92+93	
Dibutyl Phthalate(DBP) Content	600	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000

Tested Items	MDL (mg/kg)	Results (mg/kg)	Limit (mg/kg)
		94+96+99	
Dibutyl Phthalate(DBP) Content	600	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000





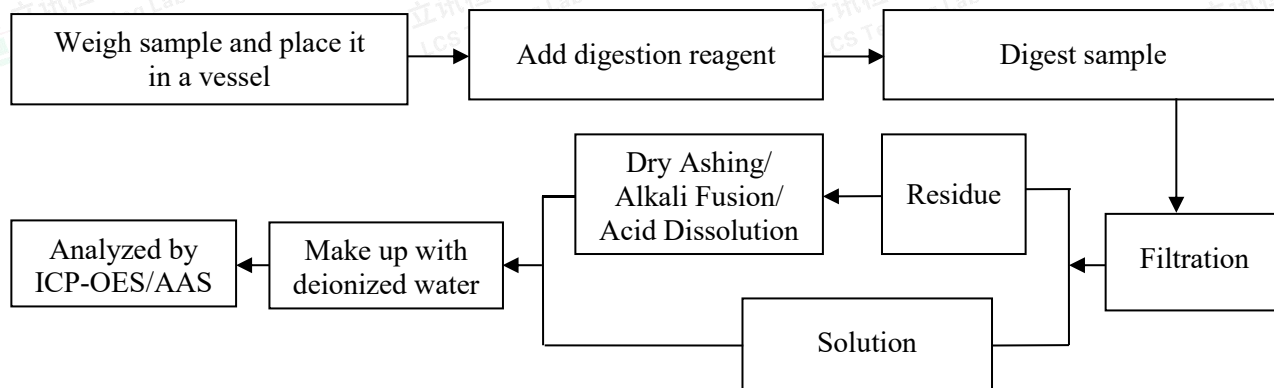
Tested Items	MDL (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		1	74	
Dibutyl Phthalate(DBP) Content	100	N.D.	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	100	N.D.	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	100	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP) Content	100	N.D.	N.D.	1000

Note:

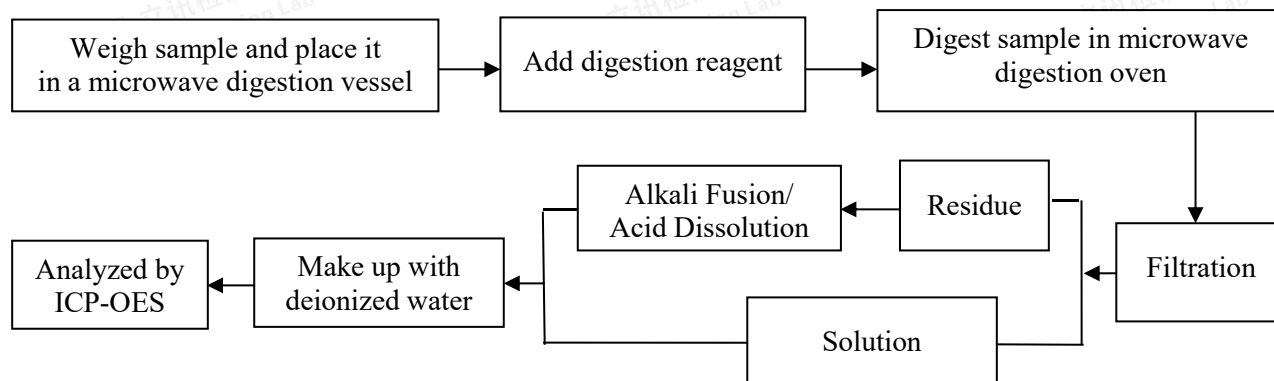
- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = milligrams per kilogram
- According to customer's requirement, only the appointed materials have been tested.
- According to the client's statement, the results of point 1 ~ 15 and 17 ~ 101 are quoted from point 1 ~ 15 and 17 ~ 101 of the report LCSA082722077R, and the original data is directly quoted, the referenced samples are not tested this time.

Test Process

1. Lead(Pb) & Cadmium(Cd): IEC 62321-5:2013



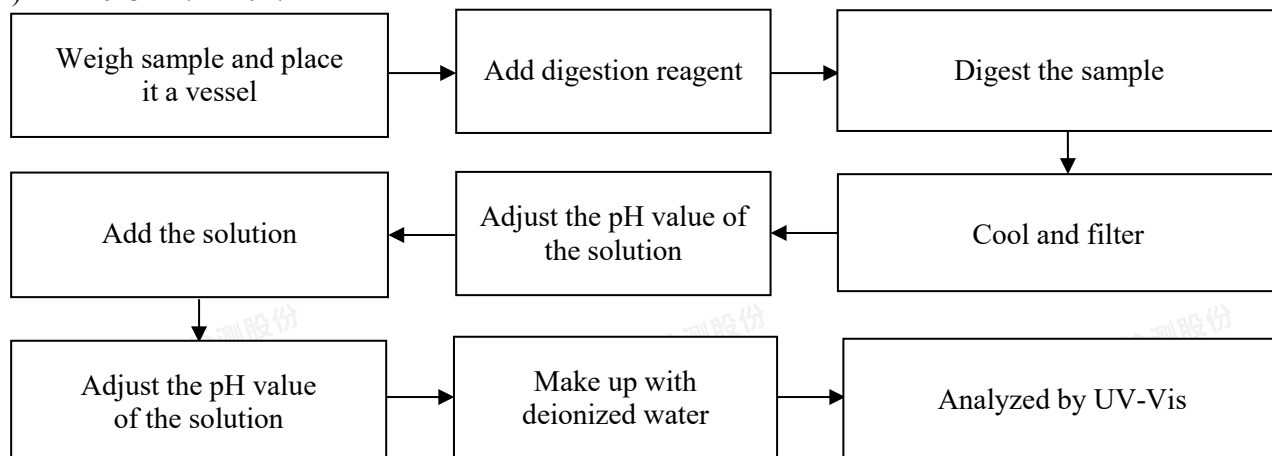
2. Mercury(Hg): IEC 62321-4:2013+AMD1:2017 CSV



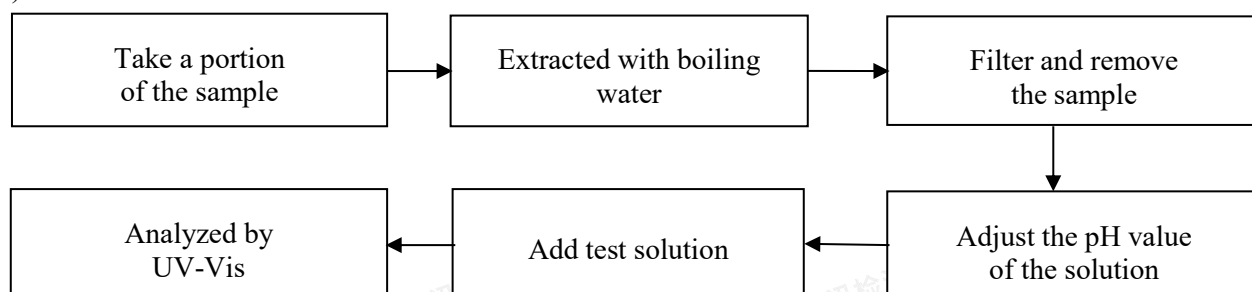


3. Hexavalent Chromium(Cr(VI))

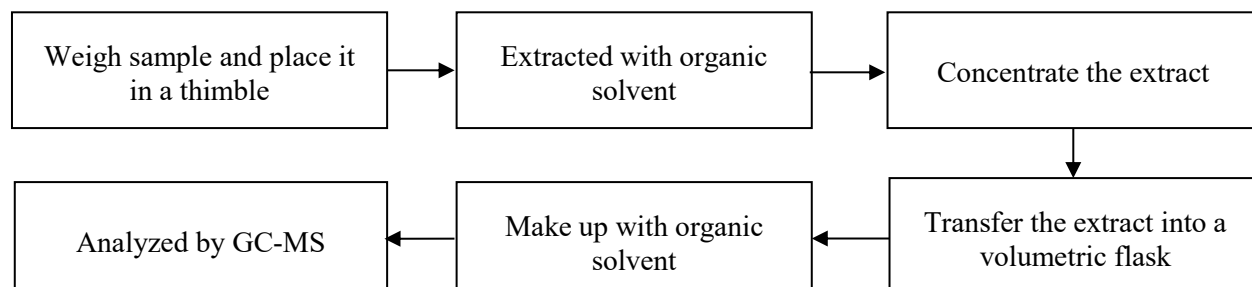
1) IEC 62321-7-2:2017



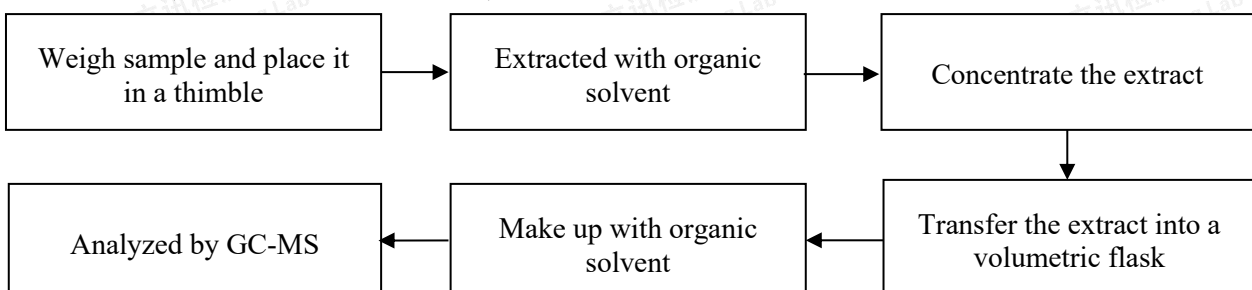
2) IEC 62321-7-1:2015



4. Polybrominated Biphenyls(PBBs) & Polybrominated Diphenyl Ethers(PBDEs) : IEC 62321-6:2015

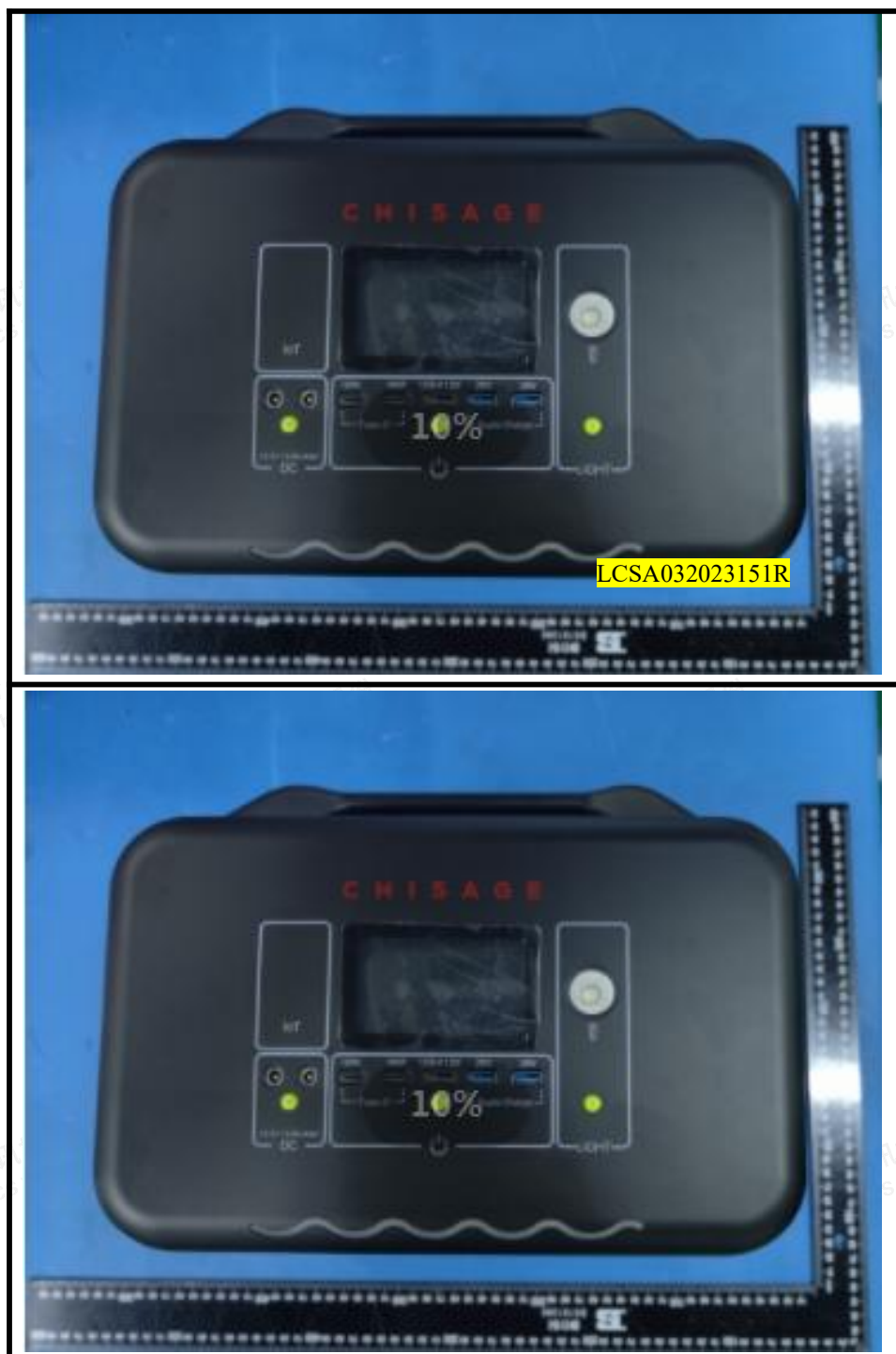


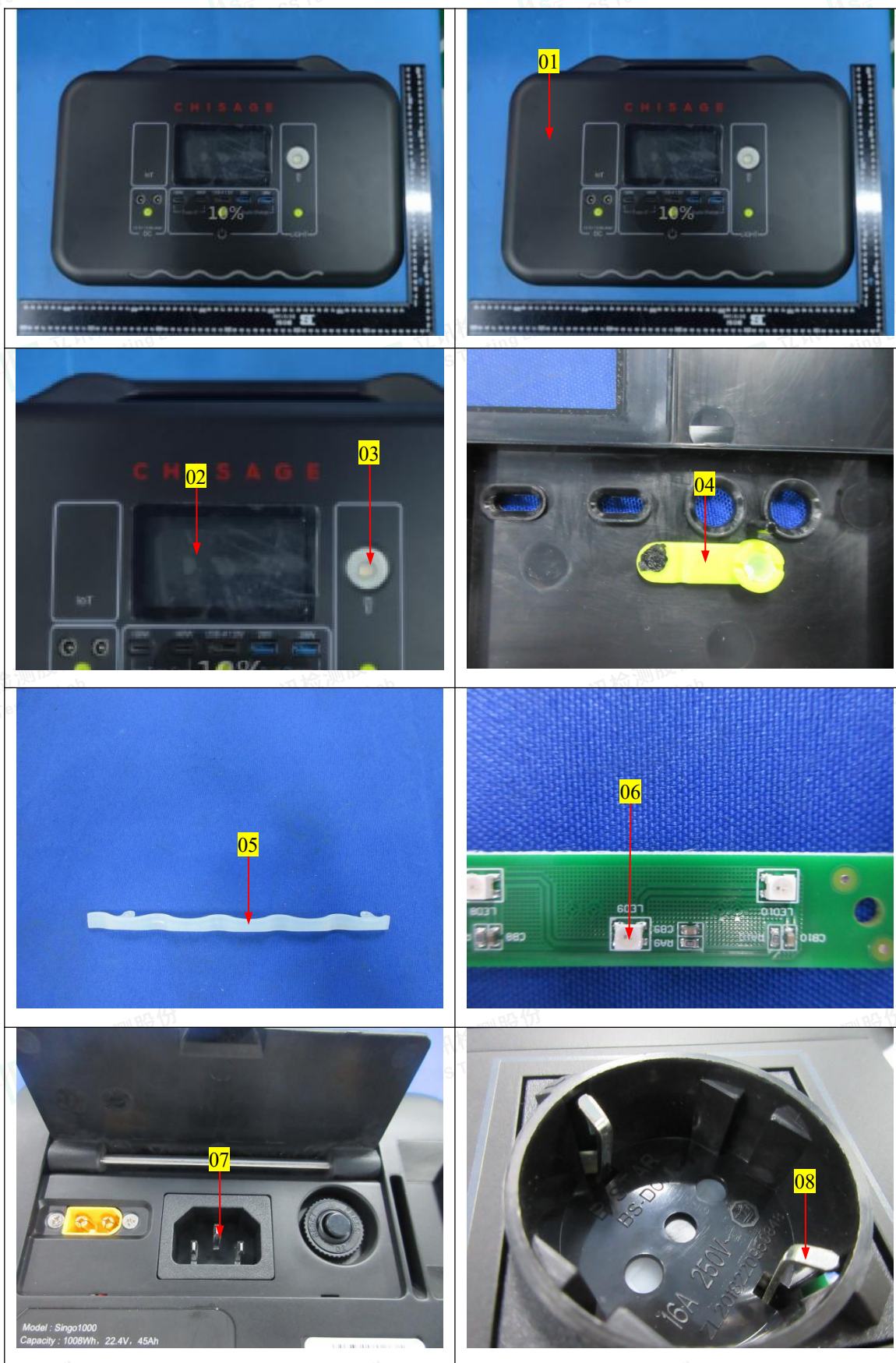
5. Phthalates(DBP, BBP, DEHP & DIBP) : IEC 62321-8:2017

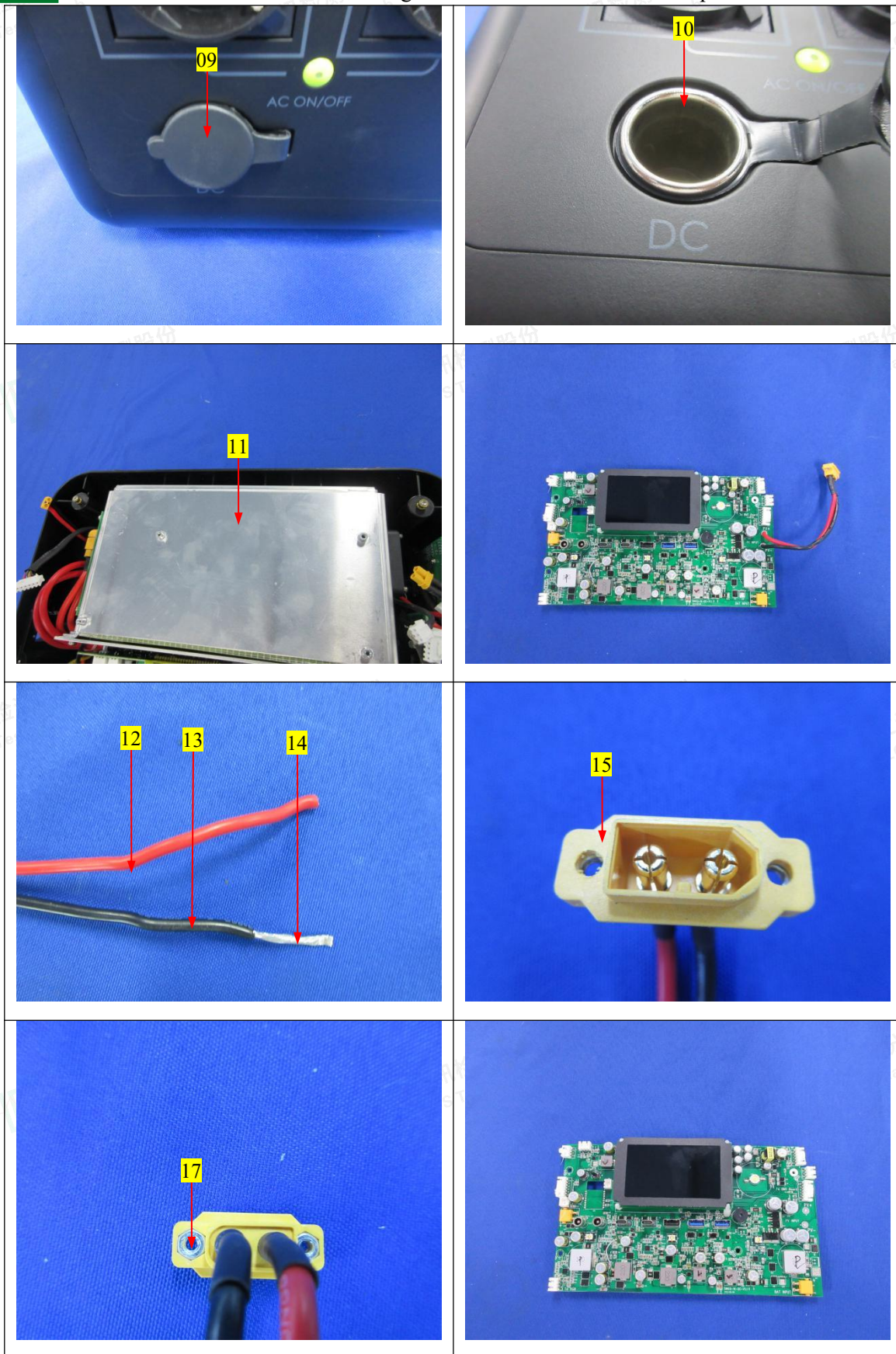


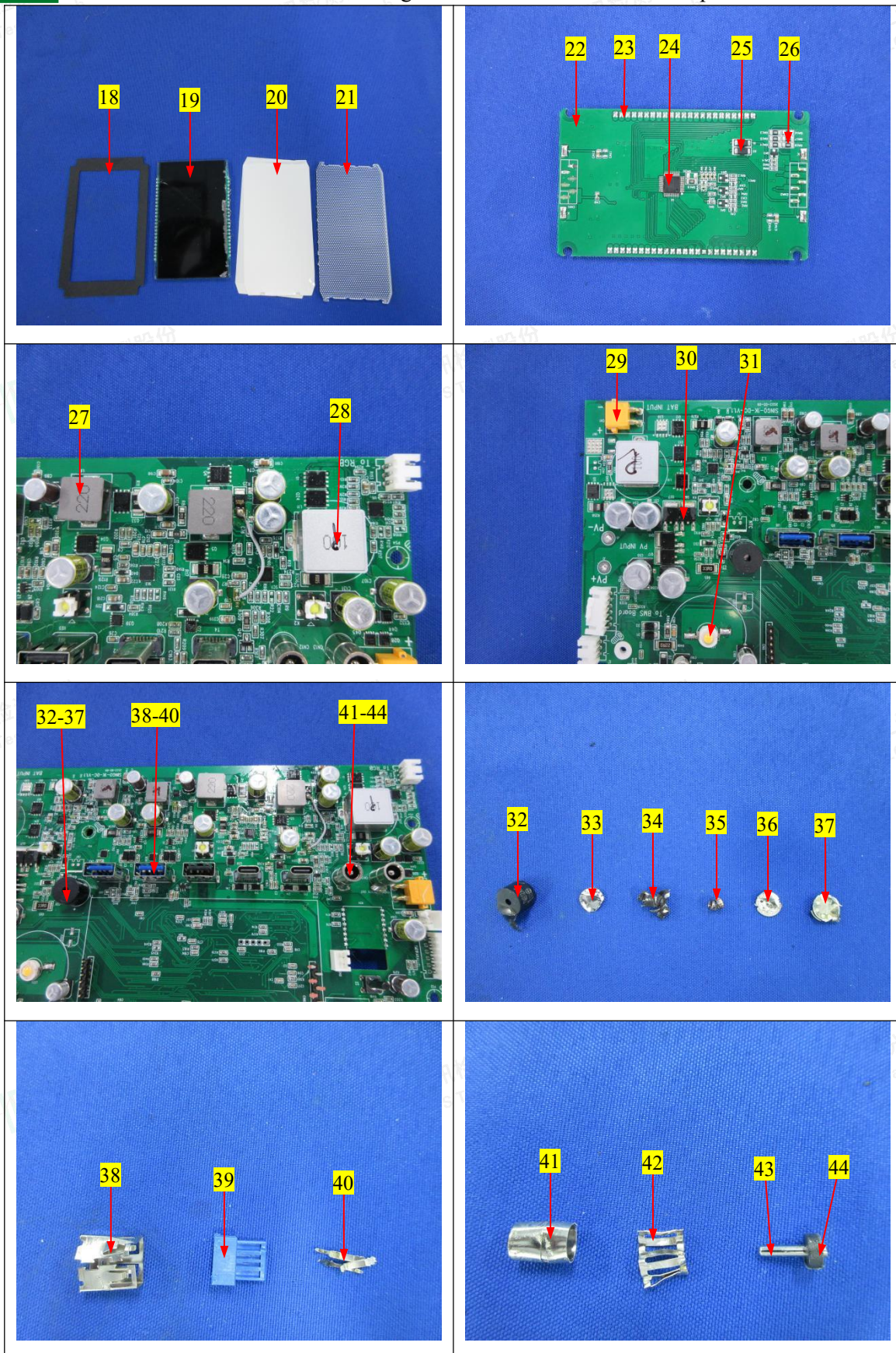


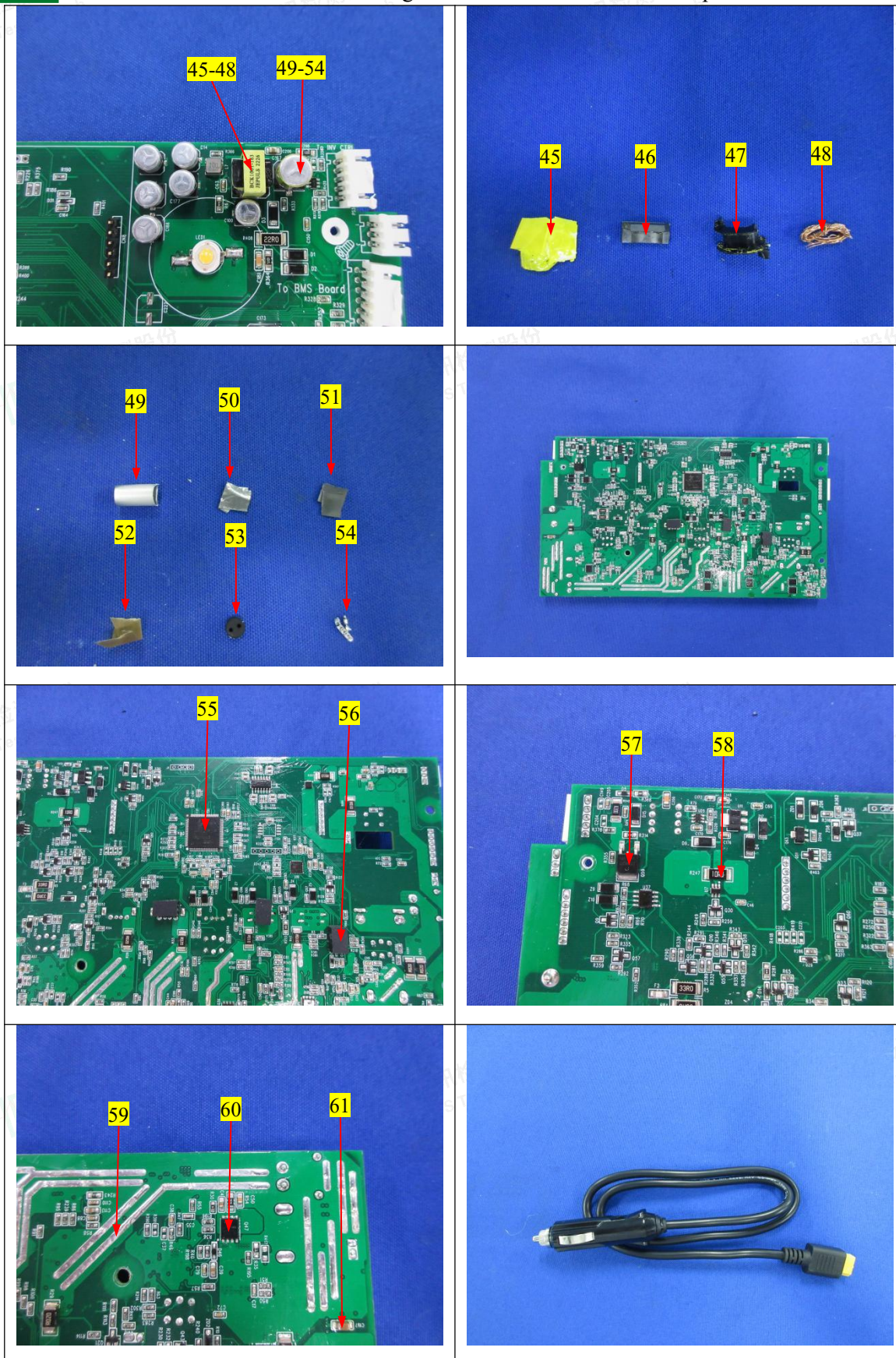
The photo(s) of the sample

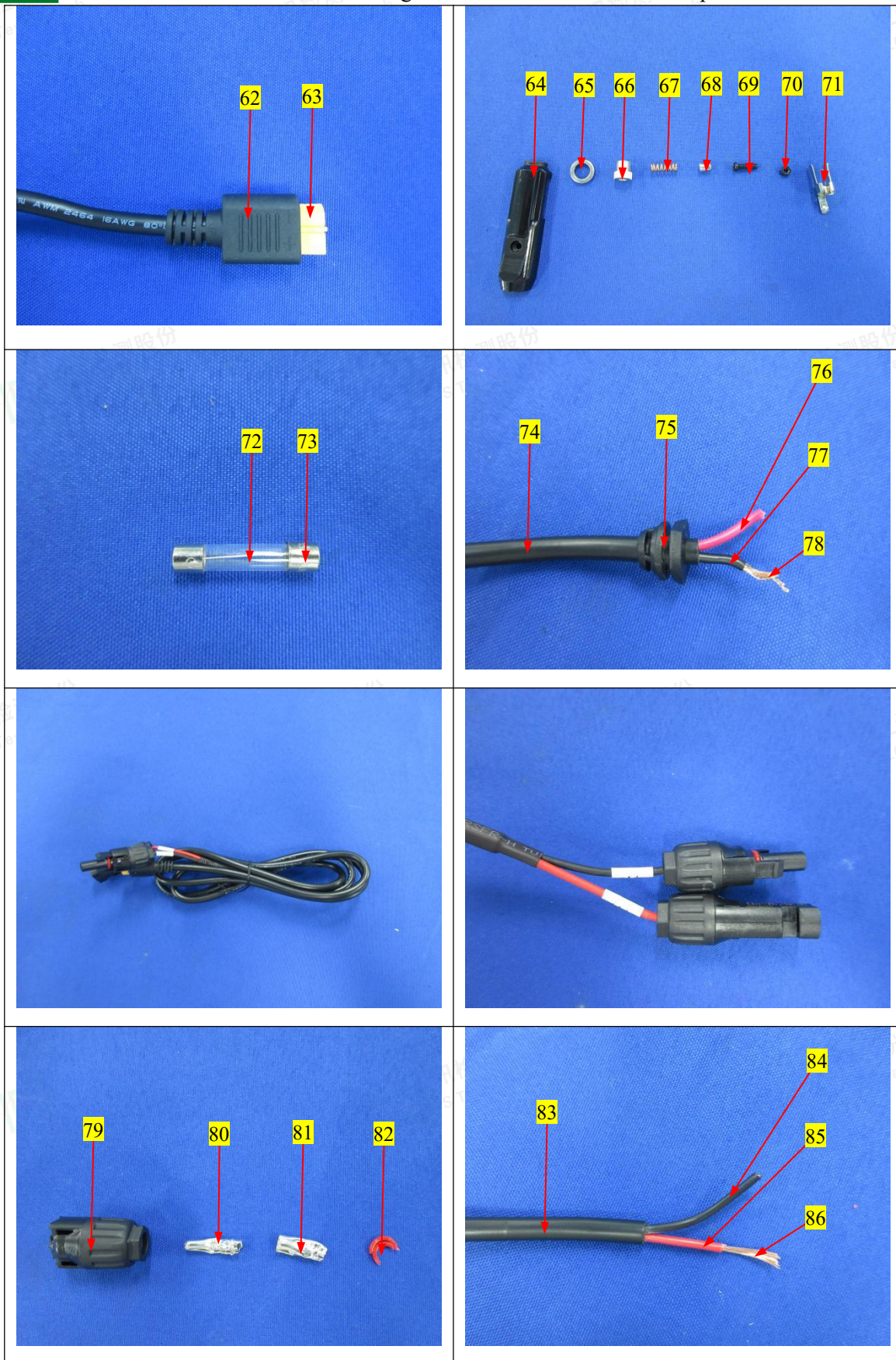


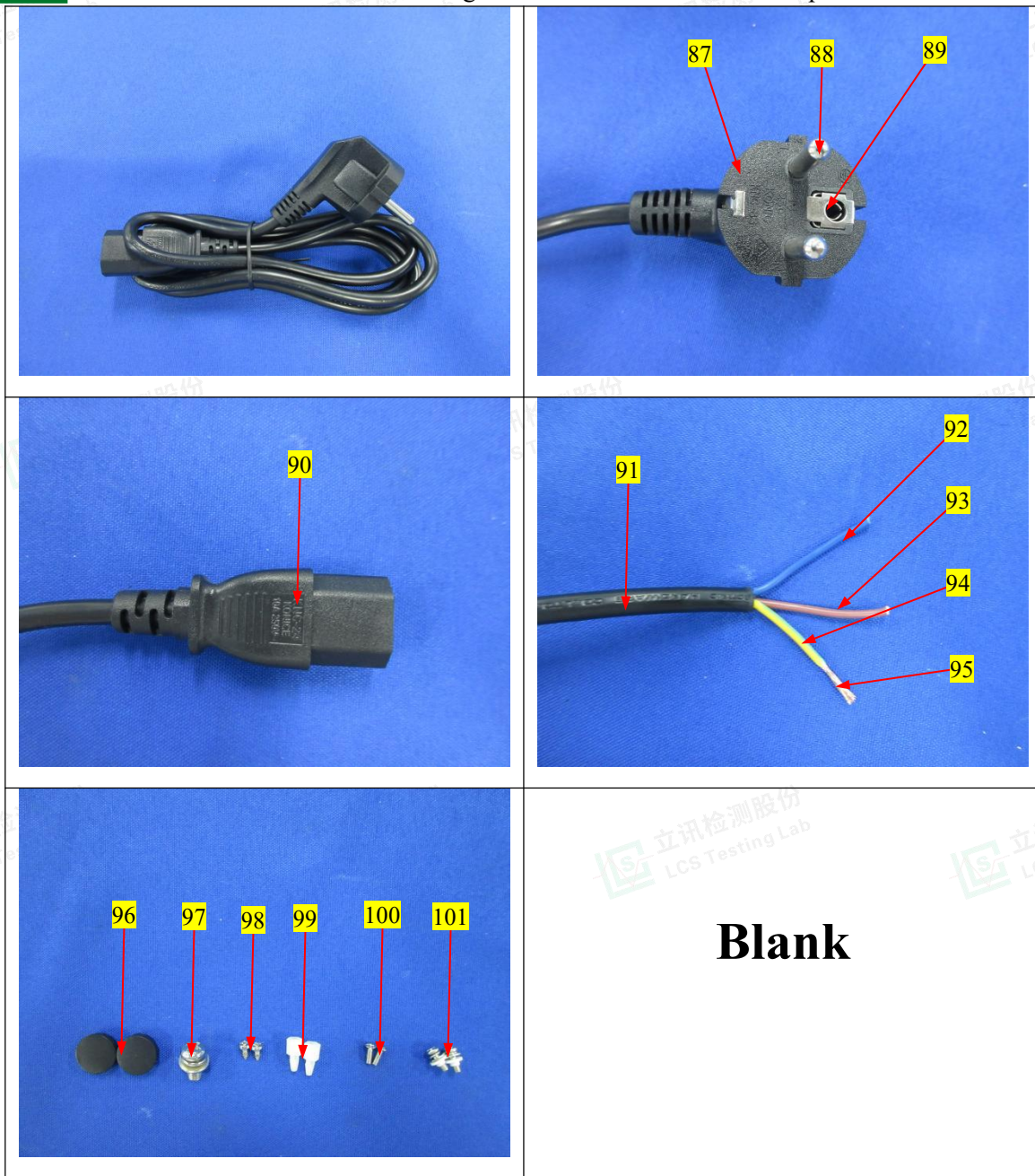














Statement:

1. The test report is invalid without the signature of the approver and the special seal for the company's report;
2. The company name, address and sample information shown on the report were provided by the applicant who should be responsible for the authenticity which are not verified by LCS;
3. The test results in this report are only responsible for the tested samples;
4. Without written approval of LCS, this report can't be reproduced except in full;
5. In case of any discrepancy between the corresponding Chinese and English contents in the test report, the Chinese version shall prevail.

*** End of Report ***

