



TEST REPORT

Applicant : SHENZHEN NSE ELECTRONICS CO., LTD
Address : 5F, 15th Bld, Hongfa Ind Park, Tangtou ave. Shiyan Town, Shenzhen, China.

Report on the submitted samples said to be:

Sample Name(s) : LED DISPLAY
Trade Mark : NSE
Tested Model No. : P10
Model List^{##} : P8, P7.8, P6.67, P6, P5.33, P5, P4.81, P4, P3.91, P3, P2.976, P2.604, P2.8, P2.5, P2, P1.953, P1.875, P1.86, P1.5, P1.25
Sample Received Date : July 14, 2026
Testing Period : July 15, 2026 ~ July 21, 2026
Date of Report : July 22, 2026
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 the client, the designated components of the submitted sample were tested. The detected contents 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) are in compliance with the limit requirements specified in RoHS Directive 2011/65/EU as amended by (EU) 2015/863.	PASS

^{##}=According to client's declaration, tested material would be produced as relevant product(s).

Signed for and on behalf of LCS



TRF-4-R-027 A/0



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

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

Test method: Refer to IEC 62321-3-1:2026, Screening by X-ray Fluorescence Spectroscopy (XRF).

Test result(s):

Sample No.	Sample Description	Screening Result(s)						Date of sample submission/ Resubmission
		Cd	Pb	Hg	Cr▼	Br▼		
						PBBs	PBDEs	
1	Silver metal with red coating	BL	BL	BL	BL	/	/	2026-07-15
2	Black metal	BL	BL	BL	BL	/	/	2026-07-15
3	Silver metal	BL	BL	BL	BL	/	/	2026-07-15
4	Red soft plastic	BL	BL	BL	BL	BL	BL	2026-07-15
5	Silver metal screw	BL	BL	BL	BL	/	/	2026-07-15
6	Metal spring	BL	BL	BL	BL	/	/	2026-07-15
7	Black metal	BL	BL	BL	BL	/	/	2026-07-15
8	Black hard plastic	BL	BL	BL	BL	BL	BL	2026-07-15
9	Silver metal	BL	BL	BL	BL	/	/	2026-07-15
10	Black metal	BL	BL	BL	BL	/	/	2026-07-15
11	Black hard plastic	BL	BL	BL	BL	BL	BL	2026-07-15
12	Silver metal	BL	BL	BL	BL	/	/	2026-07-15
13	White lamp bead	BL	BL	BL	BL	BL	BL	2026-07-15
14	Black hard plastic	BL	BL	BL	BL	BL	BL	2026-07-15
15	Black hard plastic	BL	BL	BL	BL	BL	BL	2026-07-15
16	White soft plastic	BL	BL	BL	BL	BL	BL	2026-07-15
17	Metal case of the capacitor	BL	BL	BL	BL	/	/	2026-07-15
18	Green PCB Board	BL	BL	BL	BL	BL	BL	2026-07-15
19	IC body	BL	BL	BL	BL	BL	BL	2026-07-15
20	Black hard plastic	BL	BL	BL	BL	BL	BL	2026-07-15
21	Golden metal	BL	OL	BL	BL	/	/	2026-07-15
22	Metal contact pin	BL	OL	BL	BL	/	/	2026-07-15
23	Golden metal screw	BL	OL	BL	BL	/	/	2026-07-15
24	Silver metal screw	BL	BL	BL	BL	/	/	2026-07-15
25	Silver metal screw	BL	BL	BL	X	/	/	2026-07-15
26	Silver metal screw	BL	BL	BL	X	/	/	2026-07-15
27	Crystal	BL	BL	BL	BL	/	/	2026-07-15
28	Green PCB Board	BL	BL	BL	BL	BL	BL	2026-07-15
29	Inductor	BL	BL	BL	BL	BL	BL	2026-07-15
30	Colored-printed white label paper	BL	BL	BL	BL	BL	BL	2026-07-15

TRF-4-R-027 A/0



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	Screening Result(s)						Date of sample submission/ Resubmission
		Cd	Pb	Hg	Cr▼	Br▼		
						PBBs	PBDEs	
31	IC body	BL	BL	BL	BL	BL	BL	2026-07-15
32	Black hard plastic	BL	BL	BL	BL	BL	BL	2026-07-15
33	Beige hard plastic	BL	BL	BL	BL	BL	BL	2026-07-15
34	Green PCB Board	BL	BL	BL	BL	BL	BL	2026-07-15
35	Silver metal	BL	BL	BL	BL	/	/	2026-07-15
36	Black hard plastic	BL	BL	BL	BL	BL	BL	2026-07-15
37	White hard plastic	BL	BL	BL	BL	BL	BL	2026-07-15
38	Black plastic wire covering	BL	BL	BL	BL	BL	BL	2026-07-15
39	Black soft plastic	BL	BL	BL	BL	BL	BL	2026-07-15
40	Blue hard plastic	BL	BL	BL	BL	BL	BL	2026-07-15
41	Metal contact pin	BL	BL	BL	BL	/	/	2026-07-15
42	Transparent hard plastic	BL	BL	BL	BL	BL	BL	2026-07-15
43	Black hard plastic	BL	BL	BL	BL	BL	BL	2026-07-15
44	Black soft plastic	BL	BL	BL	BL	BL	BL	2026-07-15
45	Black plastic wire covering	BL	BL	BL	BL	BL	BL	2026-07-15
46	Black hard plastic	BL	BL	BL	BL	BL	BL	2026-07-15
47	Metal contact pin	BL	OL	BL	BL	/	/	2026-07-15
48	Red soft plastic	BL	BL	BL	BL	BL	BL	2026-07-15
49	Silver metal	BL	BL	BL	BL	/	/	2026-07-15
50	Black fabric	BL	BL	BL	BL	BL	BL	2026-07-15
51	Metal pin	BL	BL	BL	BL	/	/	2026-07-15
52	Silver metal	BL	BL	BL	BL	/	/	2026-07-15
53	Yellow hard plastic	BL	BL	BL	BL	BL	BL	2026-07-15
54	White plastic film	BL	BL	BL	BL	BL	BL	2026-07-15
55	Red capacitor	BL	BL	BL	BL	BL	BL	2026-07-15
56	Plastic sheath of capacitor	BL	BL	BL	BL	BL	BL	2026-07-15
57	Copper-colored metal wire core	BL	BL	BL	BL	/	/	2026-07-15
58	Grey soft plastic	BL	BL	BL	BL	BL	BL	2026-07-15
59	Green PCB Board	BL	BL	BL	BL	BL	BL	2026-07-15
60	Solder	BL	BL	BL	BL	/	/	2026-07-15





Note:

1. 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 62321-3-1:2026(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
2. The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
 3. The maximum permissible limit is quoted from the document RoHS Directive 2011/65/EU with amendment (EU) 2015/863.
 4. ▼=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), Chromium(Cr(VI)), DBP, BBP, DEHP & DIBP content**

Test method:

Lead(Pb) & Cadmium(Cd) Content:

Refer 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).

Hexavalent Chromium(Cr(VI)) Content:

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

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

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

Test result(s):

1) Lead(Pb)

Tested Item	MDL (mg/kg)	Test Result(s) (mg/kg)				Limit (mg/kg)
		21	22	23	47	
Lead(Pb) Content	5	21621 ^{#1}	20420 ^{#1}	21187 ^{#1}	31220 ^{#1}	1000

2) Hexavalent Chromium(Cr(VI))(for coating on metal- water-extraction)**

Tested Item	MDL (µg/cm ²)	Test Result(s)	
		25	26
Hexavalent Chromium(Cr(VI)) Content★	0.10 (LOQ)	Negative	Negative

3) Phthalates(DBP, BBP, DEHP & DIBP)

Tested Item(s)	MDL (mg/kg)	Test Result(s) (mg/kg)			Limit (mg/kg)
		38	44	45	
Dibutyl Phthalate(DBP) Content	50	357	N.D.	100	1000
Butylbenzyl Phthalate(BBP) Content	50	N.D.	N.D.	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	50	N.D.	151	N.D.	1000
Diisobutyl phthalate(DIBP) Content	50	N.D.	N.D.	N.D.	1000





Tested Item(s)	MDL (mg/kg)	Test Result(s) (mg/kg)	Limit (mg/kg)
		4+8+11+13+14+15	
Dibutyl Phthalate(DBP) Content	50	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	50	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	50	N.D.	1000
Diisobutyl phthalate(DIBP) Content	50	N.D.	1000

Tested Item(s)	MDL (mg/kg)	Test Result(s) (mg/kg)	Limit (mg/kg)
		16+18+19+20+28+29	
Dibutyl Phthalate(DBP) Content	50	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	50	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	50	N.D.	1000
Diisobutyl phthalate(DIBP) Content	50	N.D.	1000

Tested Item(s)	MDL (mg/kg)	Test Result(s) (mg/kg)	Limit (mg/kg)
		30+31+32+33+34+36	
Dibutyl Phthalate(DBP) Content	50	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	50	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	50	N.D.	1000
Diisobutyl phthalate(DIBP) Content	50	N.D.	1000

Tested Item(s)	MDL (mg/kg)	Test Result(s) (mg/kg)	Limit (mg/kg)
		37+39+40+42+43+46	
Dibutyl Phthalate(DBP) Content	50	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	50	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	50	N.D.	1000
Diisobutyl phthalate(DIBP) Content	50	N.D.	1000





Tested Item(s)	MDL (mg/kg)	Test Result(s) (mg/kg)	Limit (mg/kg)
		48+50+53+54+55+56	
Dibutyl Phthalate(DBP) Content	50	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	50	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	50	N.D.	1000
Diisobutyl phthalate(DIBP) Content	50	N.D.	1000

Tested Item(s)	MDL (mg/kg)	Test Result(s) (mg/kg)	Limit (mg/kg)
		58+59	
Dibutyl Phthalate(DBP) Content	50	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	50	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	50	N.D.	1000
Diisobutyl phthalate(DIBP) Content	50	N.D.	1000

Note:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL or LOQ)
- mg/kg= milligram per kilogram=ppm
- $\mu\text{g}/\text{cm}^2$ = micrograms per square centimeter
- LOQ = Limit Of Quantification, The LOQ of Hexavalent chromium is $0.10 \mu\text{g}/\text{cm}^2$

**=Boiling-water-extraction:

- ★ = a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than $0.13 \mu\text{g}/\text{cm}^2$. The sample coating is considered to contain Cr(VI).
- b. The sample is negative for Cr(VI) if Cr(VI) is N.D.(concentration less than $0.10 \mu\text{g}/\text{cm}^2$). The sample coating is considered a non- Cr(VI) based coating.
- c. The result between $0.10 \mu\text{g}/\text{cm}^2$ and $0.13 \mu\text{g}/\text{cm}^2$ is considered to be inconclusive, unavoidable coating variations may influence the determination.

- Information on storage conditions and production date of the tested samples is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

- According to customer's requirement, only the appointed materials have been tested.

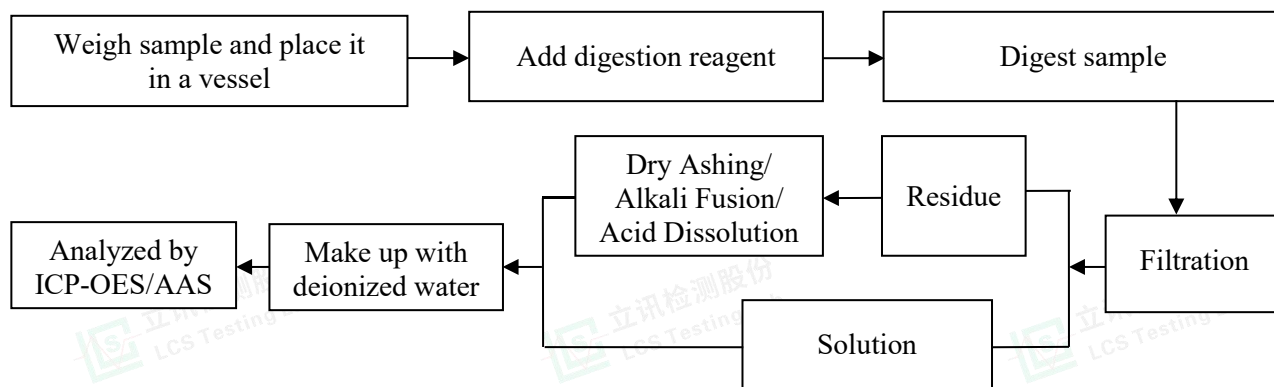
#1 According to RoHS Directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.



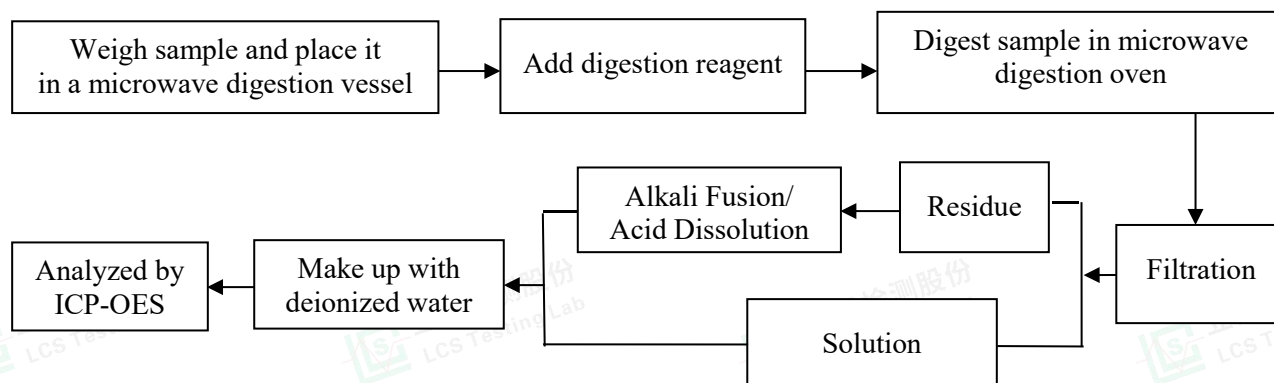


Test Process

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

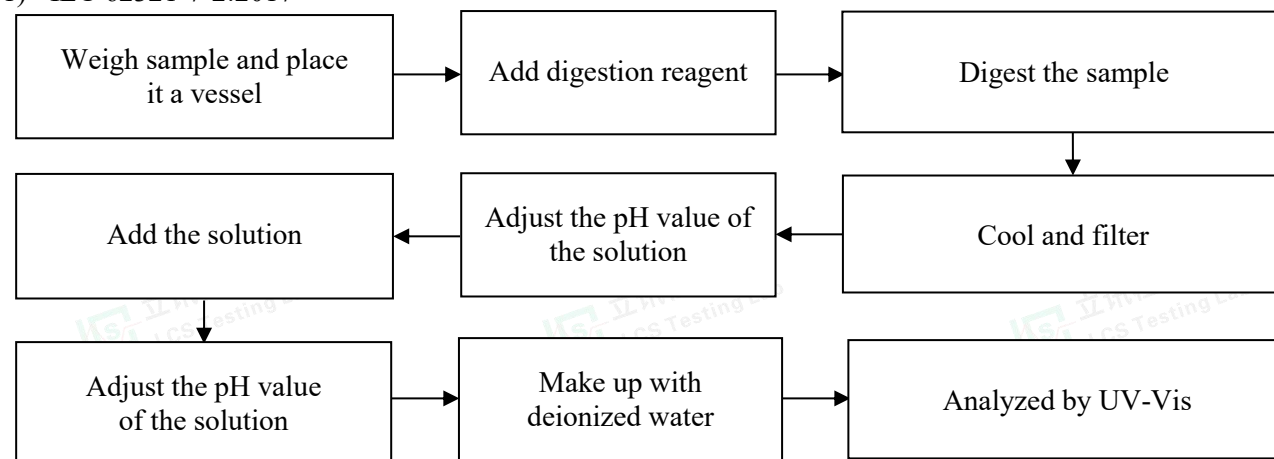


2. Mercury(Hg): IEC 62321-4:2013+AMD1:2017 CSV



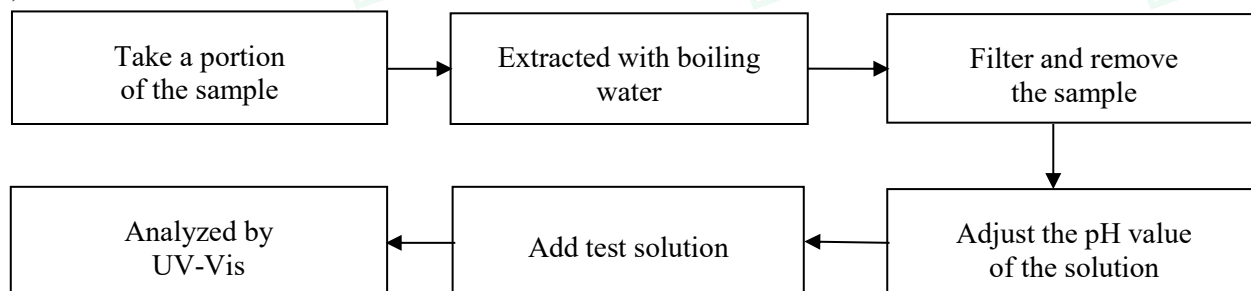
3. Hexavalent Chromium(Cr(VI))

1) IEC 62321-7-2:2017

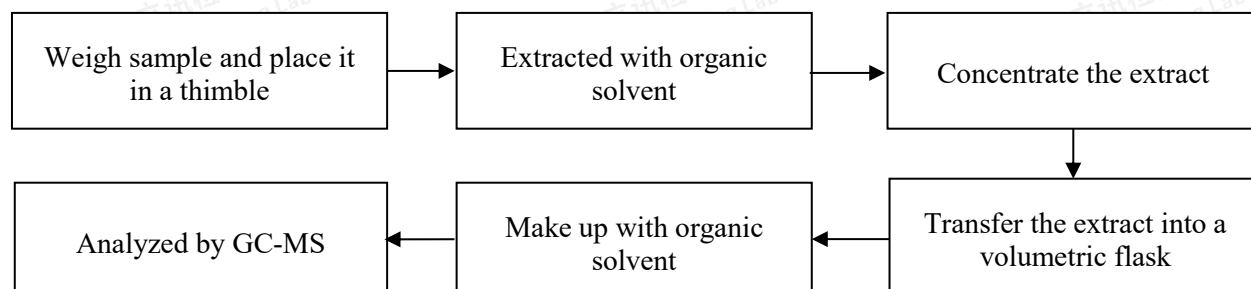




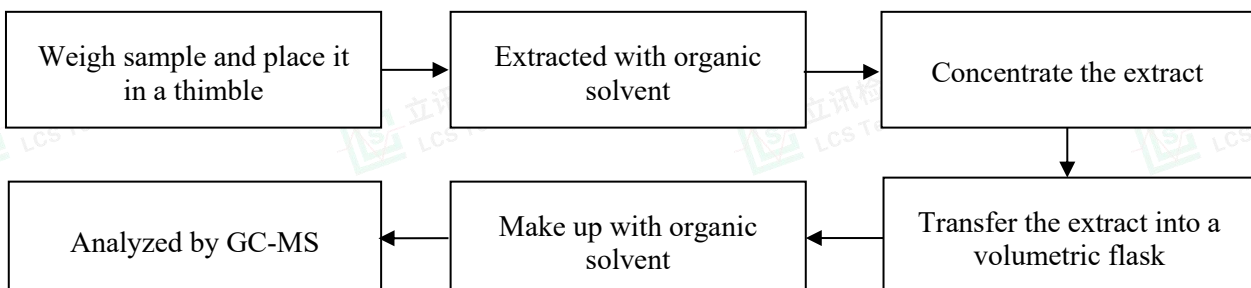
2) IEC 62321-7-1:2015



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

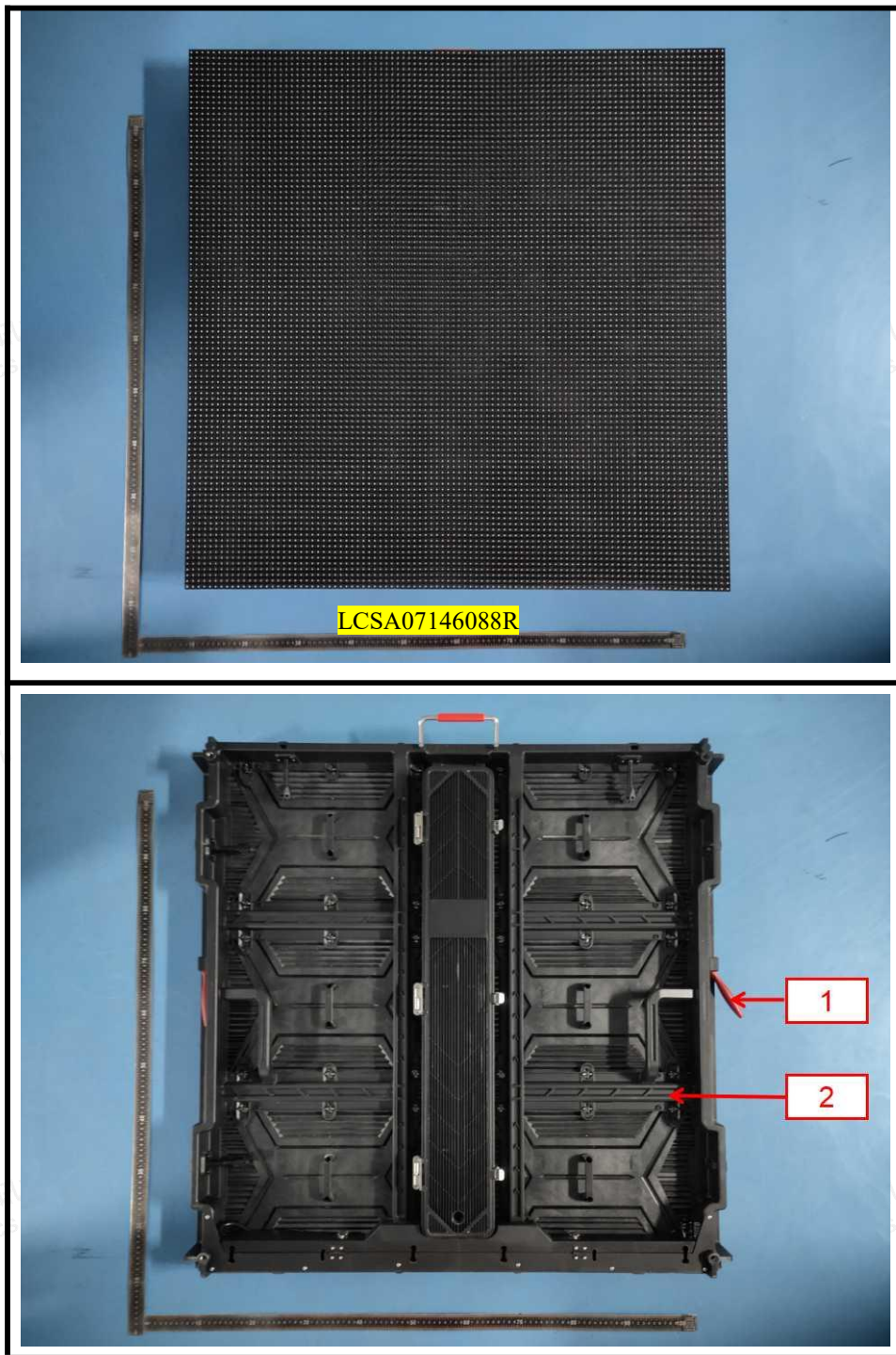


5. Phthalates(DBP, BBP, DEHP & DIBP) : IEC 62321-8:2017





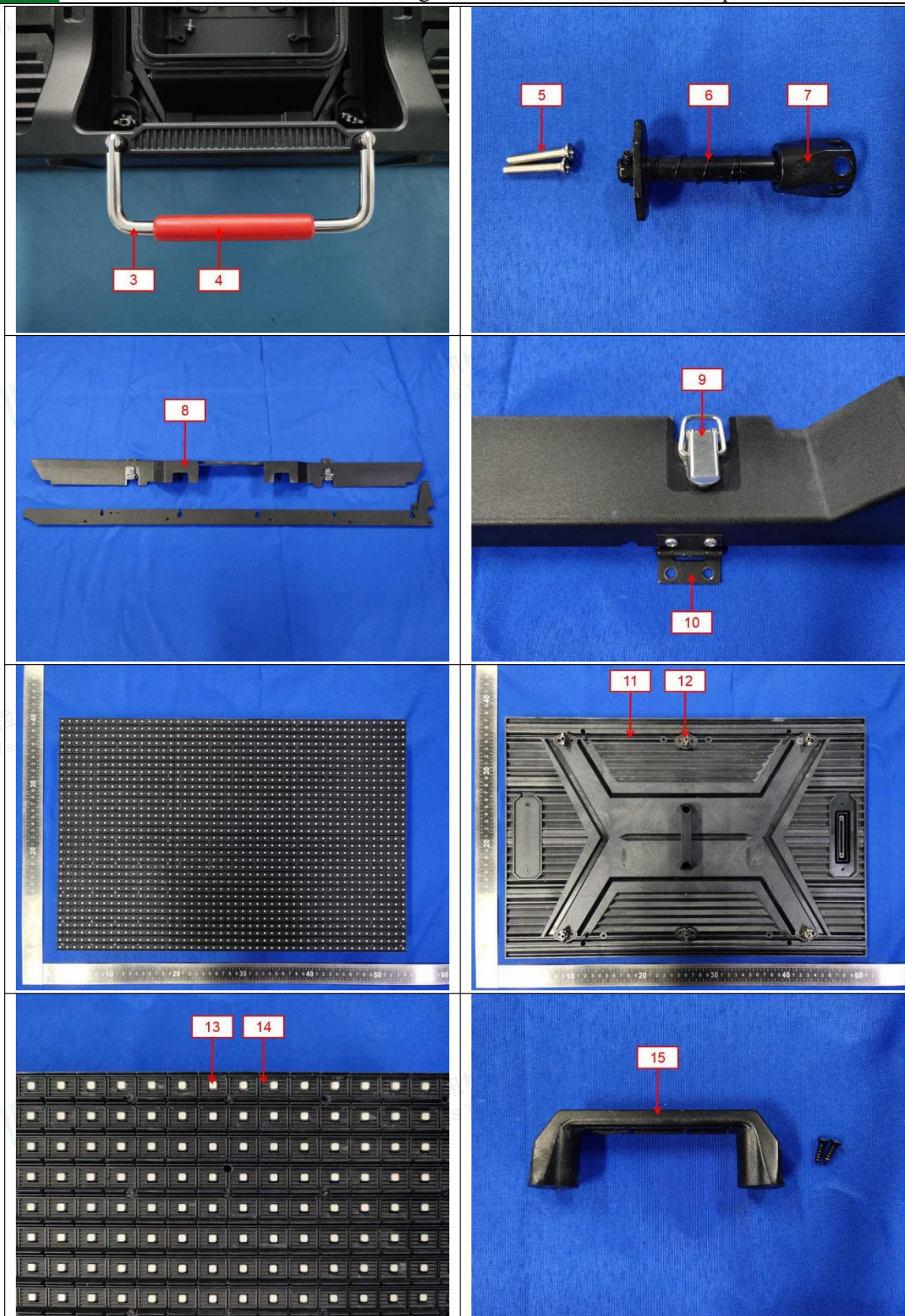
The photo(s) of the sample

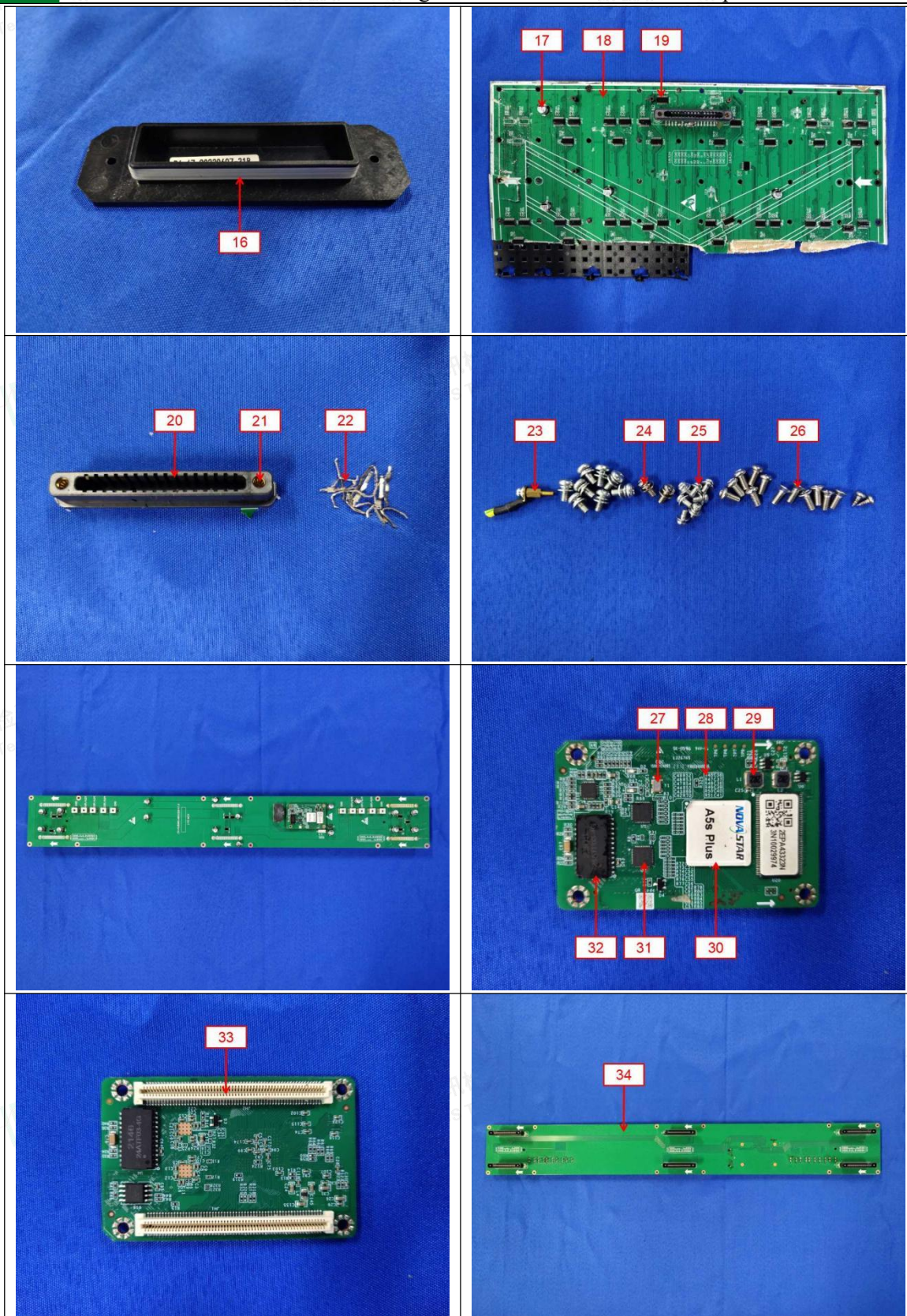


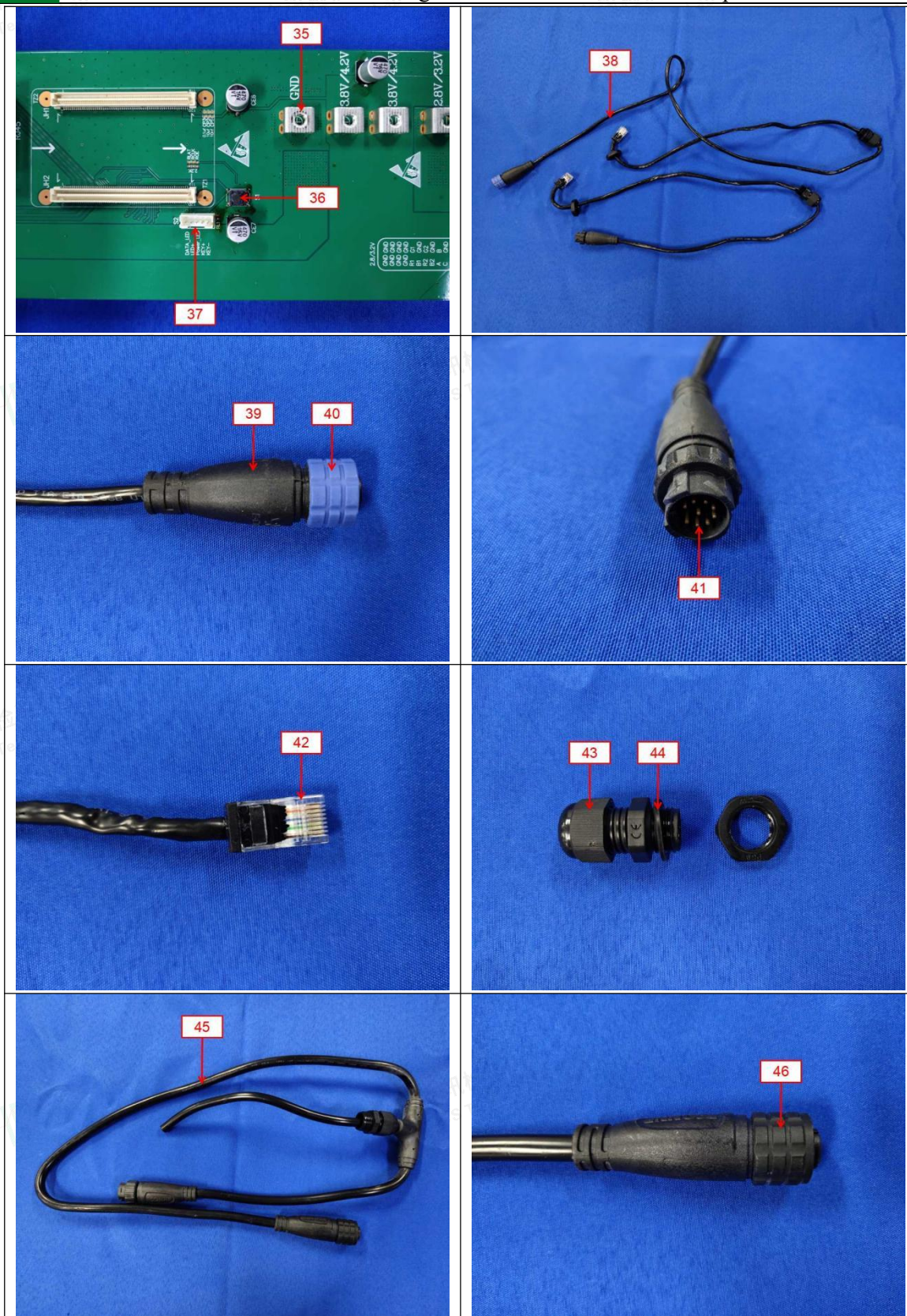
TRF-4-R-027 A/0

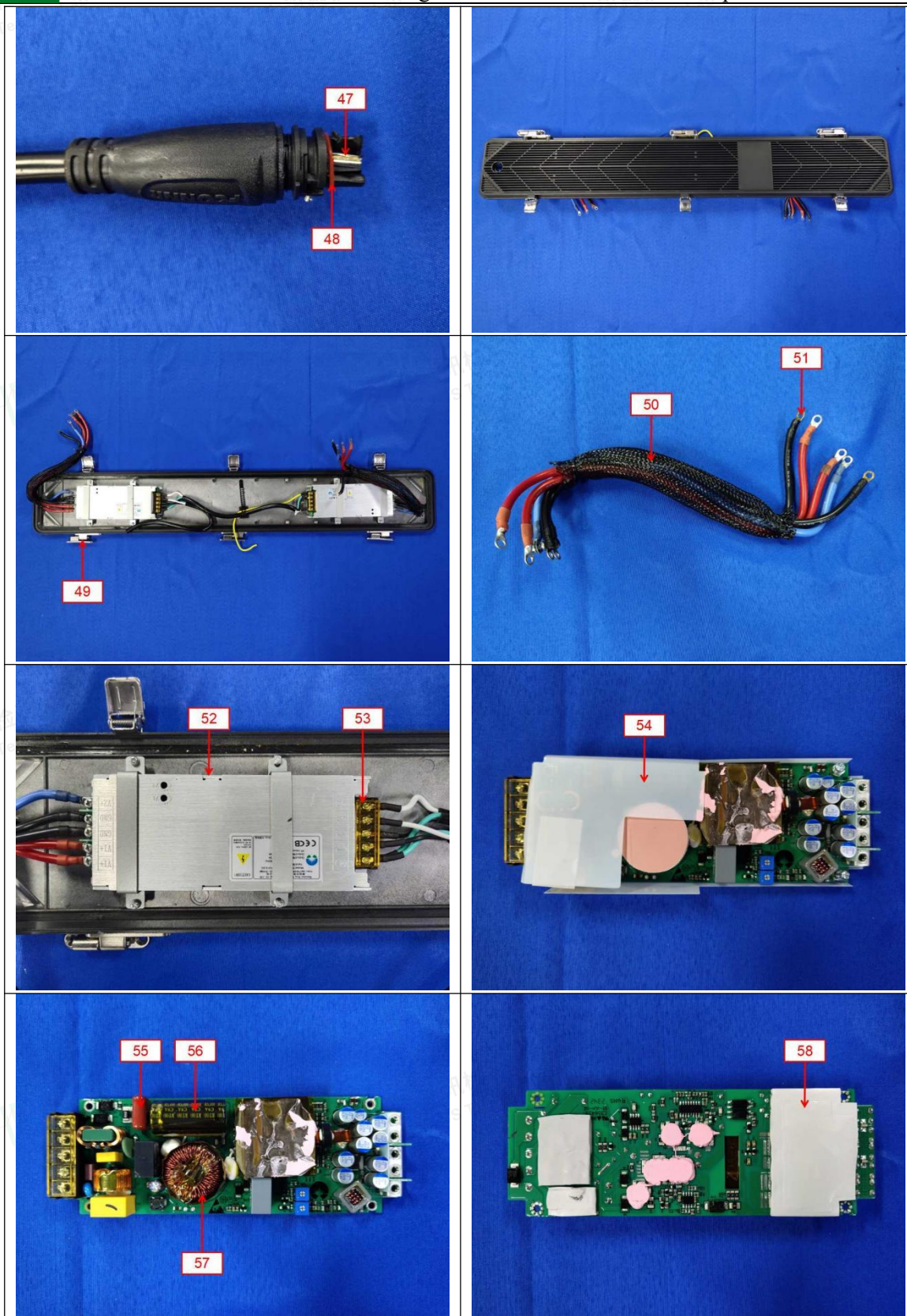


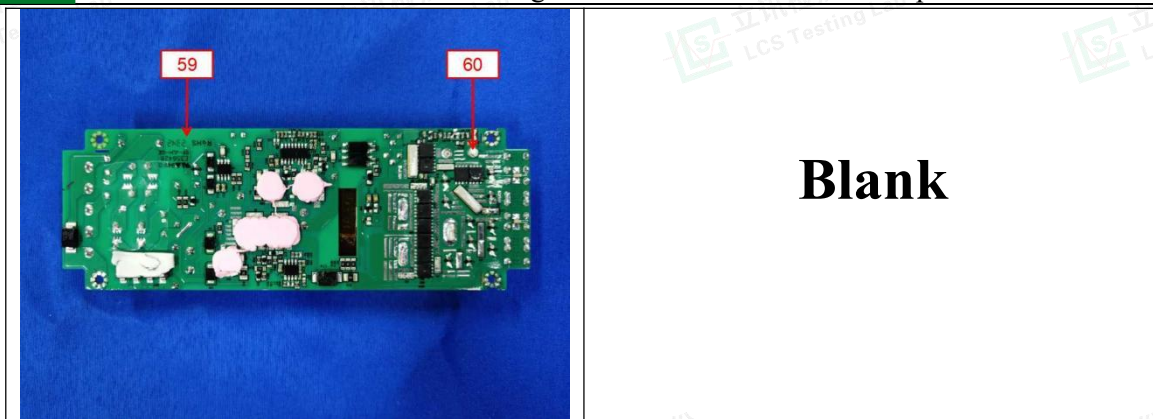
Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 901, No.40 Building, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, Guangdong, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity









**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 ***

