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Test Report

Client	:	Dongguan Guitong Electronics Technology Co., Ltd.
Address	:	Room 301, NO.3 Building, NO.7, Luoqunpu 1 Road, Qingxi Town, Dongguan City, Guangdong, P.R. China

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name	:	Power Bank
Model/P.O. No.	:	GO-BAT
Manufacturer	:	Dongguan Guitong Electronics Technology Co., Ltd.
Received Date	:	Jun 13, 2024
Test Period	:	Jun 13, 2024~Jun 20, 2024
Test Requested	:	EU RoHS 2011/65/EU and 2015/863/EU

Conclusion		
-	Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr^{6+})	PASS
-	Polybromobiphenyls (PBBs) & Polybromodiphenyl ethers (PBDEs)	PASS
-	DBP, BBP, DEHP, DIBP	PASS

For Further Details, Please Refer To the Following Page(s)

Approved by: Jane. Liu

Date: Jun 24, 2024

SHENZHEN TIANSU CALIBRATION AND TESTING CO., LTD. Report Seal (02-01)

Test Method

Test Item(s)	Test Method	Equipment	MDL
Pb, Cd, Hg, Cr, Br	IEC 62321-3-1:2013	XRF	5mg/kg
Pb, Cd	IEC 62321-5:2013	ICP-OES	5mg/kg
Hg	IEC 62321-4:2013+AMD1:2017	ICP-OES	5mg/kg
Cr^{6+}	IEC 62321-7-2:2017	UV-Vis	5mg/kg
	IEC 62321-7-1:2015		0.10μg/cm^2
PBBs & PBDEs	IEC 62321-6:2015	GC-MS	5mg/kg
DBP, BBP, DEHP, DIBP	IEC 62321-8:2017	GC-MS	30mg/kg

Test Result(s)

- Screening test results

Test items	1	2	3	4	5	6	7	8
Pb	P	P	P	P	P	P	P	P
Cd	P	P	P	P	P	P	P	P
Hg	P	P	P	P	P	P	P	P
Cr	P	P	P	P	P	P	P	P
Br	P	P	P	P	/	P	P	P
Conclusion	P	P	P	P	P	P	P	P

Test items	9	10	11	12	13	14	15	16
Pb	P	P	P	P	P	P	P	P
Cd	P	P	P	P	P	P	P	P
Hg	P	P	P	P	P	P	P	P
Cr	P	P	P	P	P	P	P	P
Br	/	/	D	D	D	D	D	D
Conclusion	P	P	D	D	D	D	D	D

Test items	17	18	19	20	21	22	23	24	25	26
Pb	P	P	P	P	P	P	P	P	P	P
Cd	P	P	P	P	P	P	P	P	P	D
Hg	P	P	P	P	P	P	P	P	P	P
Cr	P	P	P	P	P	P	P	P	P	P
Br	D	D	D	/	/	D	/	P	P	/
Conclusion	D	D	D	P	P	D	P	P	P	D

Test items	27	28	29	30	31	32	33	34	35	36
Pb	P	P	P	P	P	P	P	D	D	P
Cd	P	P	P	P	P	P	P	P	D	P
Hg	P	P	P	P	P	P	P	P	P	P
Cr	P	P	P	P	P	P	P	P	D	P
Br	D	P	P	P	P	/	P	/	/	P
Conclusion	D	P	P	P	P	P	P	D	D	P

Test items	37	38	39	40	41	42	43	44	45	46
Pb	P	P	P	P	D	P	P	P	P	P
Cd	P	P	P	P	P	P	P	P	P	P
Hg	P	P	P	P	P	P	P	P	P	P
Cr	P	P	P	P	P	P	P	P	P	P
Br	P	P	P	P	/	/	P	/	/	P
Conclusion	P	P	P	P	D	P	P	P	P	P

Note:

- It is the result on total Br while testing PBBs and PBDEs by XRF. It is the result on total Cr while testing Hexavalent Chromium by XRF.
- Results are obtained by XRF for primary screening, and chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GCMS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013 (unit: mg/kg)

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Element	Polymer	Metal	Composite Materials
Cd	P≤70-3σ＜D＜130+3σ≤F	P≤70-3σ＜D＜130+3σ≤F	P≤50-3σ＜D＜150+3σ≤F
Pb	P≤700-3σ＜D＜1300+3σ≤F	P≤700-3σ＜D＜1300+3σ≤F	P≤500-3σ＜D＜1500+3σ≤F
Hg	P≤700-3σ＜D＜1300+3σ≤F	P≤700-3σ＜D＜1300+3σ≤F	P≤500-3σ＜D＜1500+3σ≤F
Br	P≤300-3σ＜D	----	P≤250-3σ＜F
Cr	P≤700-3σ＜D	P≤700-3σ＜D	P≤500-3σ＜F

- P=PASS, F=FAIL, D=DETECTED
- mg/kg = ppm = 0.0001%, /= Not Available

- Chemical test results:

Test results of Pb, Cd, Hg and Cr^{6+}

Test Item(s)	MDL	Result(s) (mg/kg)				Limit (mg/kg)
		26	34	35	41	
Lead(Pb)	5mg/kg	N.D.	N.D.	N.D.	N.D.	1000
Cadmium(Cd)	5mg/kg	N.D.	N.D.	N.D.	N.D.	100
Mercury(Hg)	5mg/kg	N.D.	N.D.	N.D.	N.D.	1000
Hexavalent Chromium(Cr^{6+})#1	5mg/kg	/	/	/	/	1000
Hexavalent Chromium(Cr^{6+})#2	0.10μg/cm^2	N.D.	N.D.	N.D.	N.D.	/

Note:

- mg/kg=ppm=parts per million;
- N.D.=Not Detected (<MDL); MDL=method detection limit;
- #1: For non-metal materials test.
- #2: For metal materials test:
  "Positive" indicates Cr^{6+} in a sample is detected above 0.13μg/cm^2;
  "Negative" indicates Cr^{6+} in a sample is detected below 0.10μg/cm^2;

Test results of PBBs and PBDEs

Test Item(s)	MDL	Result(s) (mg/kg)					Limit (mg/kg)
		11	12	13	14	15	
Monobromobiphenyl	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	/
Dibromobiphenyl	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	/
Tribromobiphenyl	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	/
Tetrabromobiphenyl	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	/
Pentabromobiphenyl	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	/
Hexabromobiphenyl	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	/
Heptabromobiphenyl	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	/
Octabromobiphenyl	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	/
Nonabromobiphenyl	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	/
Decabromodiphenyl	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	/
Polybromobiphenyl(PBBs)	/	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**1000**
Monobromobiphenyl ether	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	/
Bibromobiphenyl ether	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	/
Tribromobiphenyl ether	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	/
Tetrabromobiphenyl ether	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	/
Pentabromobiphenyl ether	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	/
Hexabromobiphenyl ether	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	/
Heptabromobiphenyl ether	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	/
Octabromobiphenyl ether	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	/
Nonabromobiphenyl ether	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	/
Decabromodiphenyl ether	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	/
Polybromodiphenyl ether(PBDEs)	/	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**1000**

Test Item(s)	MDL	Result(s) (mg/kg)						Limit (mg/kg)
		16	17	18	19	22	27	
Monobromobiphenyl	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	/
Dibromobiphenyl	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	/
Tribromobiphenyl	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	/
Tetrabromobiphenyl	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	/
Pentabromobiphenyl	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	/
Hexabromobiphenyl	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	/
Heptabromobiphenyl	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	/
Octabromobiphenyl	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	/
Nonabromobiphenyl	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	/
Decabromodiphenyl	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	/
Polybromobiphenyl(PBBs)	/	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**1000**
Monobromobiphenyl ether	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	/
Bibromobiphenyl ether	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	/
Tribromobiphenyl ether	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	/
Tetrabromobiphenyl ether	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	/
Pentabromobiphenyl ether	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	/
Hexabromobiphenyl ether	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	/
Heptabromobiphenyl ether	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	/
Octabromobiphenyl ether	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	/
Nonabromobiphenyl ether	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	/
Decabromodiphenyl ether	5mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	/
Polybromodiphenyl ether(PBDEs)	/	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**1000**

Note:

- mg/kg=ppm=parts per million;
- N.D.=Not Detected (<MDL);
- MDL=method detection limit.

Test results of Phthalates

Test Item(s)	MDL	Result(s) (mg/kg)					Limit (mg/kg)
		1	2	3	4	6	
Dibutyl phthalate(DBP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Butyl benzyl phthalate(BBP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di (2-ethylhexyl) phthalate(DEHP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate (DIBP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000

Test Item(s)	MDL	Result(s) (mg/kg)					Limit (mg/kg)
		7	8	11	12	13	
Dibutyl phthalate(DBP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Butyl benzyl phthalate(BBP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di (2-ethylhexyl) phthalate(DEHP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate (DIBP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000

Test Item(s)	MDL	Result(s) (mg/kg)					Limit (mg/kg)
		14	15	16	17	18	
Dibutyl phthalate(DBP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Butyl benzyl phthalate(BBP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di (2-ethylhexyl) phthalate(DEHP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate (DIBP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000

Test Item(s)	MDL	Result(s) (mg/kg)					Limit (mg/kg)
		19	22	24	25	27	
Dibutyl phthalate(DBP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Butyl benzyl phthalate(BBP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di (2-ethylhexyl) phthalate(DEHP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate (DIBP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000

Test Item(s)	MDL	Result(s) (mg/kg)					Limit (mg/kg)
		28	29	30	31	32	
Dibutyl phthalate(DBP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Butyl benzyl phthalate(BBP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di (2-ethylhexyl) phthalate(DEHP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate (DIBP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000

Test Item(s)	MDL	Result(s) (mg/kg)					Limit (mg/kg)
		36	37	38	39	40	
Dibutyl phthalate(DBP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Butyl benzyl phthalate(BBP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di (2-ethylhexyl) phthalate(DEHP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate (DIBP)	30mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000

Note:

- mg/kg=ppm=parts per million;
- N.D.=Not Detected (<MDL);
- MDL=method detection limit.

Test components:

1	White plastic	2	Black plastic
3	Black flexible plastic	4	White latex
5	Silver metal	6	Black plastic
7	Red plastic	8	Black plastic
9	Silver metal	10	Red wire
11	Yellow plastic	12	Black plastic
13	Beige plastic	14	Black plastic
15	Black plastic	16	Black plastic
17	Brown plastic	18	Black plastic
19	Black plastic	20	Grey metal
21	Silver metal	22	Black plastic
23	Silver metal	24	White plastic

25	Orange plastic	26	Soldering tin
27	Green PCB	28	Green sticker
29	Yellow tape	30	Green plastic
31	White plastic	32	Silver metal
33	White plastic	34	Silver metal
35	Silver metal	36	White plastic
37	Beige plastic	38	Blue plastic
39	Red tape	40	White plastic
41	Positive lug	42	Aluminum foil
43	Positive toner	44	Negative lug
45	Copper foil	46	Negative toner

Chemical Test Process

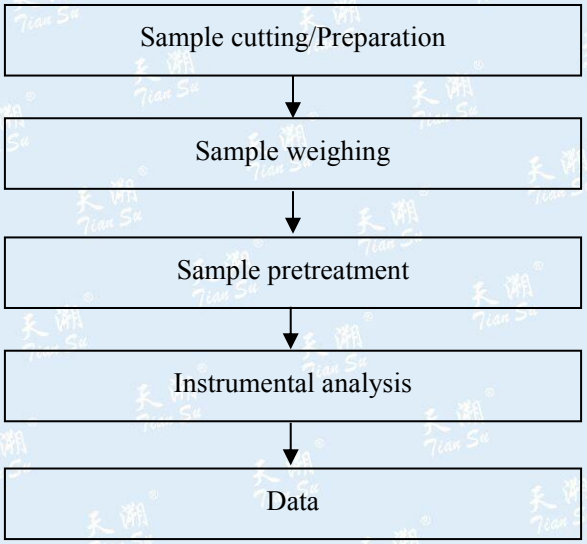
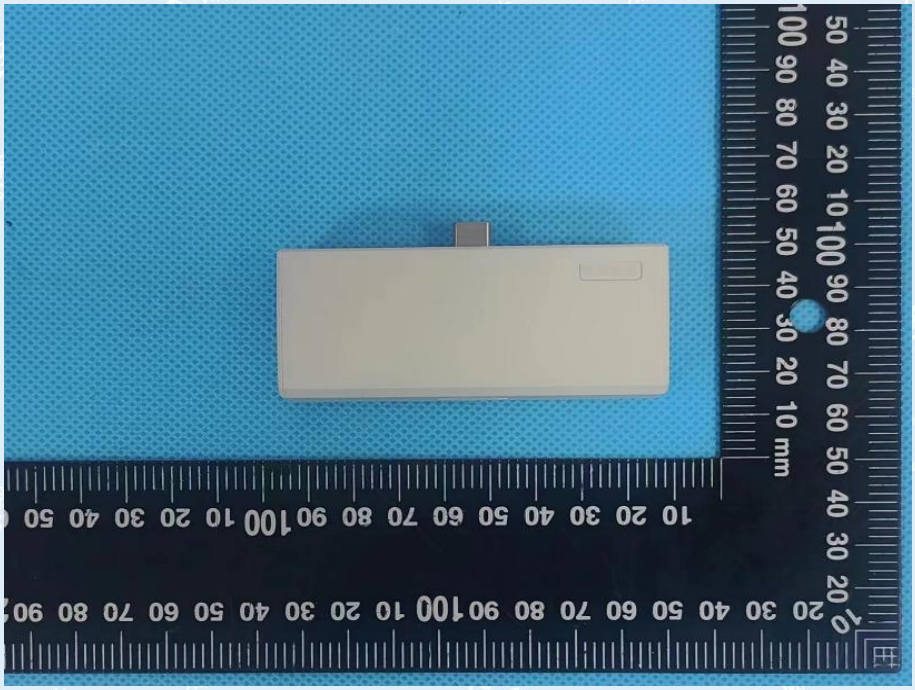
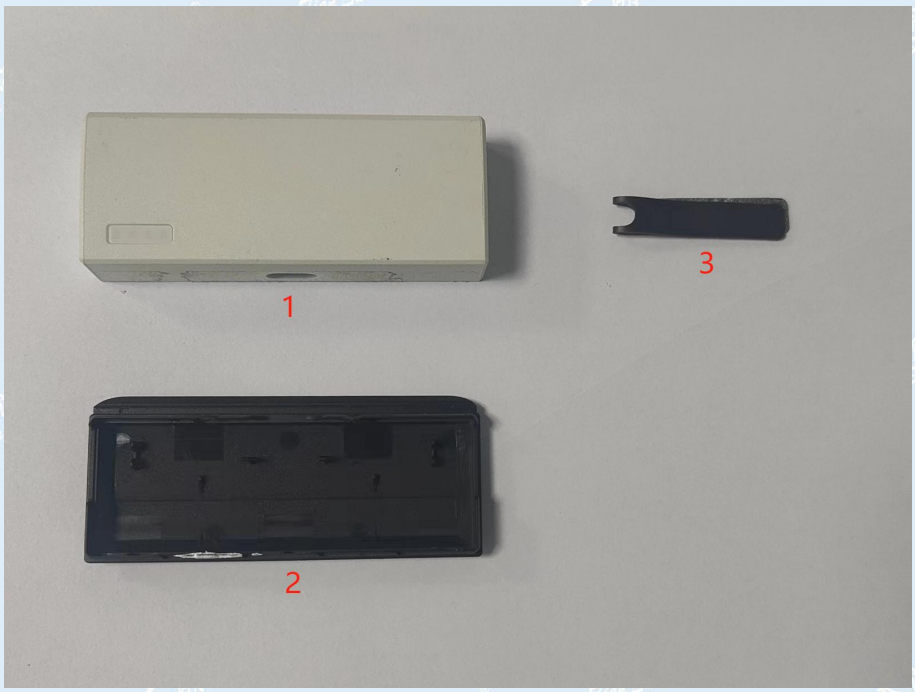
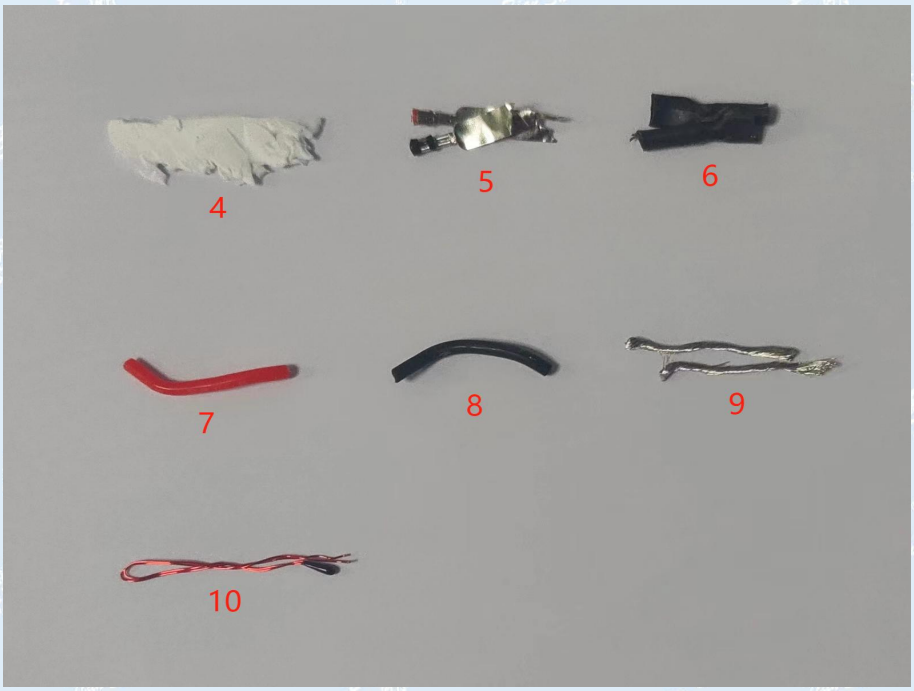


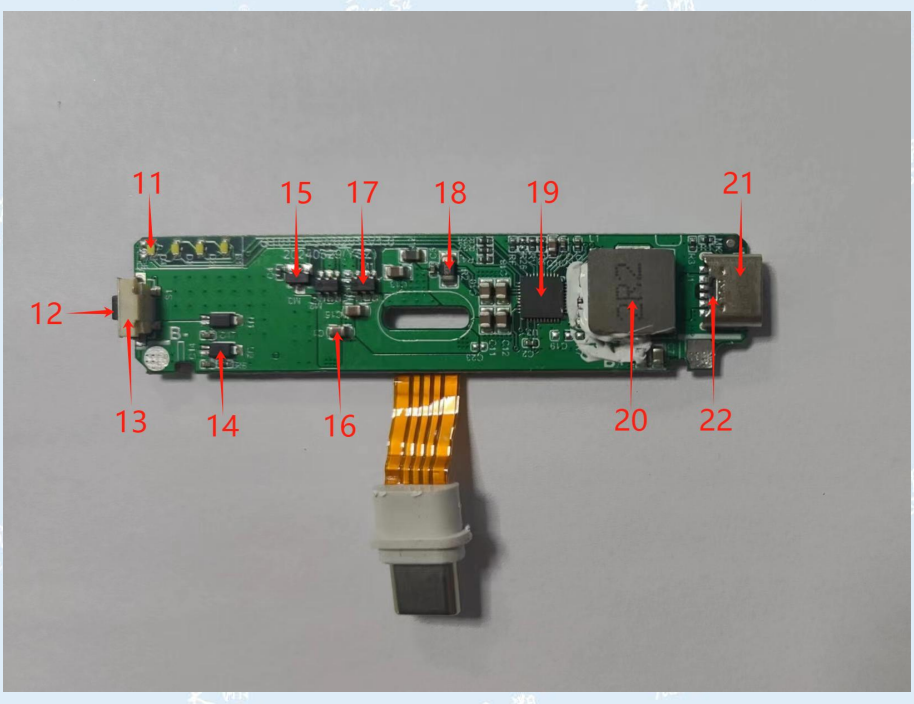
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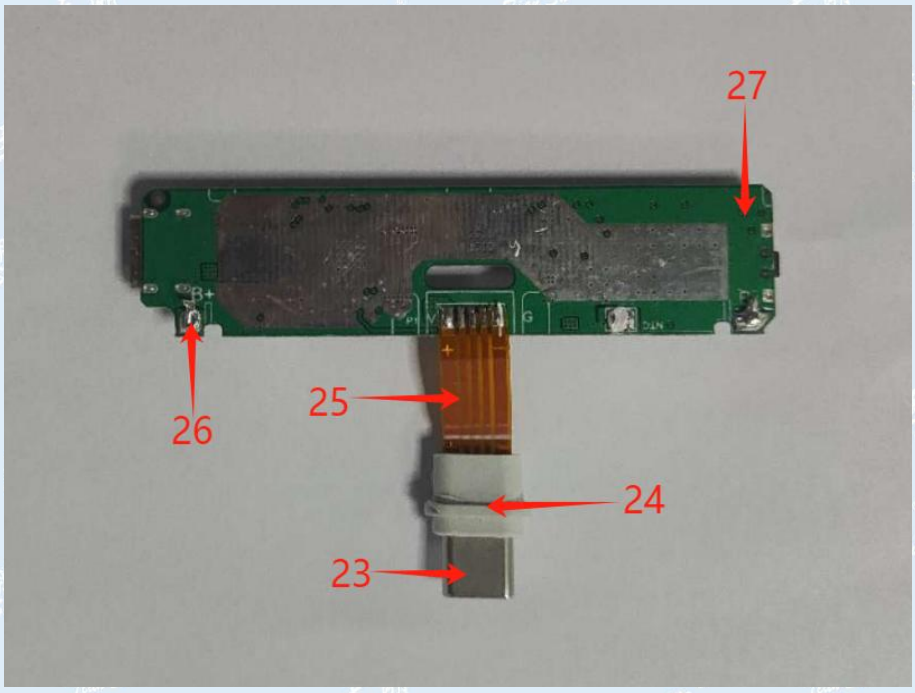


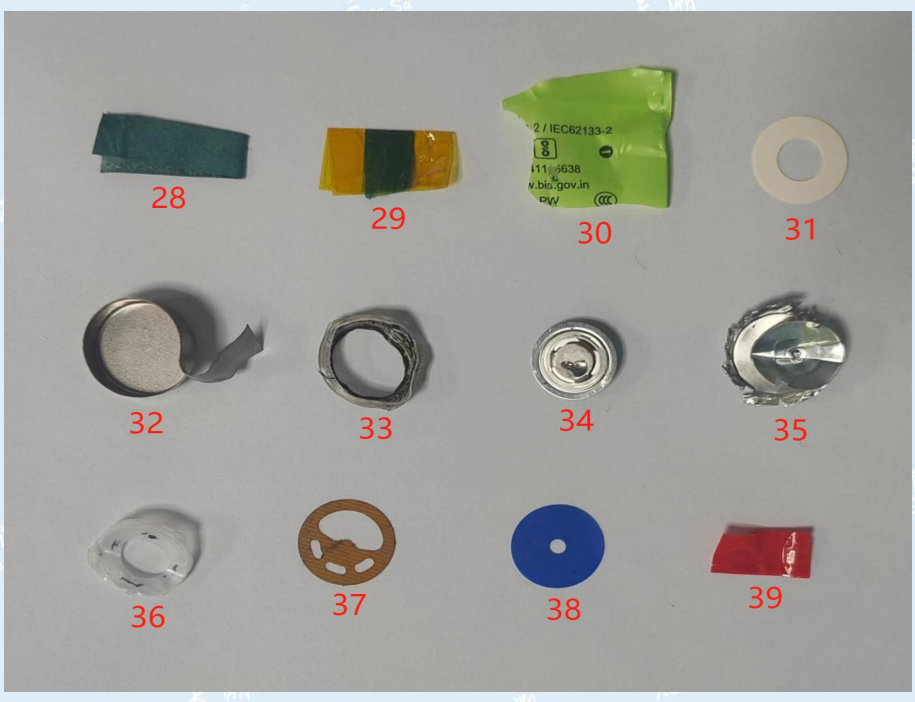
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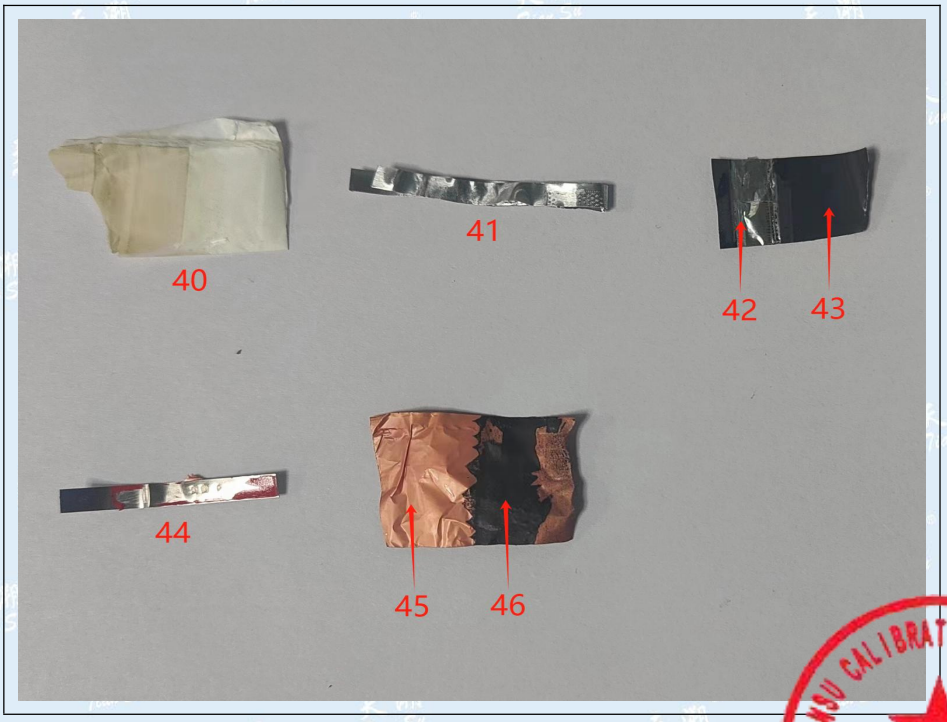



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********** End of report **********

This report is invalid without the Special Seal of Tiansu. This report shall not be altered, increased or deleted. The results shown in this report refer only to the sample(s) tested.

This testing report supersedes the original one (report No. TSZ24E043D06-01) which was invalid since the date of this testing report released.