



TEST REPORT

Report No.: STSGZ2409293160E

Date: 29-Oct-2024

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Applicant : Mid Ocean Brands B.V.

Address: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

The following sample(s) and sample information was/were submitted and identified by client as:

Sample Name: 5 panel LED light baseball cap

Model: MO2439

Vendor Code: 107978

Receiving Date: 29-Sep-2024, 21-Oct-2024

Test Period: From 29-Sep-2024 to 22-Oct-2024

Add Information: -

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DBP, BBP, DEHP and DIBP EU RoHS Directive 2011/65/EU and its amendment directives (EU) 2015/863 (RoHS)	IEC 62321-3-1:2013 IEC 62321-4:2013+A1:2017 IEC 62321-5:2013 IEC 62321-6:2015 IEC 62321-7-1:2015 IEC 62321-7-2:2017 IEC 62321-8:2017	PASS

Signed for and on behalf of STS

Mark Mai
(Technical Director)



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Result:

1.1 EU RoHS Directive 2011/65/EU and its amendment directives on XRF IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
1	Silvery metal, D-ring base	BL	BL	BL	BL	NA
2	Silvery metal, D-ring cap	BL	BL	BL	BL	NA
3	Silvery metal, fixed clamp lid	BL	BL	BL	BL	NA
4	Silvery metal, rivet	BL	BL	BL	BL	NA
5	Silvery metal, fixed clamp base	BL	BL	BL	BL	NA
6	Silvery metal, button shell	BL	BL	BL	BL	NA
7	Silvery metal, button inner shell	BL	BL	BL	BL	NA
8	Silvery metal, button inner ring	BL	BL	BL	BL	NA
9	Silvery metal, button pin	BL	BL	BL	BL	NA
10	Bright black non-woven fabric, strip	BL	BL	BL	BL	BL
11	Dark blue textile cloth, main body	BL	BL	BL	BL	BL
12	Black textile, cap top inner lining	BL	BL	BL	BL	X
13	Black embroidery thread, firmware	BL	BL	BL	BL	BL
14	White textile cloth, inner lining	BL	BL	BL	BL	BL
15	Black textile cloth, bound	BL	BL	BL	BL	BL
16	Black non-woven fabric, sponge sleeve	BL	BL	BL	BL	BL
17	Black elastic band, secure	BL	BL	BL	BL	BL
18	Grey sponge, fill	BL	BL	BL	BL	BL
19	Black plastic, board	BL	BL	BL	BL	BL
20	Transparent dry glue, fill	BL	BL	BL	BL	BL
21	Black plastic, button shell	BL	BL	BL	BL	BL
22	Bright black plastic, button	BL	BL	BL	BL	BL
23	Silvery metal, spring	BL	BL	BL	X	NA
24	Silvery metal, inner shell	BL	BL	BL	BL	NA

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25	White plastic, inner shell	BL	BL	BL	BL	BL
26	Silvery metal, touch piece	BL	BL	BL	BL	NA
27	Silvery metal, solder(Button contact sheet 01)	BL	BL	BL	BL	NA
28	Yellow soft plastic, wire jacket	BL	BL	BL	BL	BL
29	White fiber, wire core	BL	BL	BL	BL	BL
30	Coppey metal, wire core	BL	BL	BL	BL	NA
31	Transparent plastic, LED	BL	BL	BL	BL	X
32	Silvery metal, LED	BL	BL	BL	BL	NA
33	Green small PCB, LED	BL	BL	BL	BL	X
34	Silvery metal, solder(LED PCB 01)	BL	BL	BL	BL	NA
35	Red soft plastic, wire jacket	BL	BL	BL	BL	BL
36	Black soft plastic, wire jacket	BL	BL	BL	BL	BL
37	Black plastic, switch	BL	BL	BL	BL	BL
38	Silvery metal, switch	BL	BL	BL	BL	NA
39	Brown PCB, switch	BL	BL	BL	BL	BL
40	Silvery metal, contact piece	BL	BL	BL	BL	NA
41	Silvery metal, contact pin	BL	BL	BL	BL	NA
42	Black plastic, charging port	BL	BL	BL	BL	BL
43	Silvery metal, charging port	BL	BL	BL	BL	NA
44	Silvery metal, screw	BL	BL	BL	X	NA
45	Red plastic, port	BL	BL	BL	BL	BL
46	Silvery metal, contact piece	BL	BL	BL	BL	NA
47	White printed black soft plastic, wire cover	BL	BL	BL	BL	BL
48	Black plastic, shell	BL	BL	BL	BL	BL
49	Silvery metal, solder(big PCB 01)	BL	BL	BL	BL	NA
50	Green big PCB	BL	BL	BL	BL	X
51	Silvery metal, contact spot	BL	BL	BL	BL	NA
52	Silvery metal, contact piece	BL	BL	BL	BL	NA
53	Black body, resistance	BL	BL	BL	BL	BL

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54	White body, diode	BL	BL	BL	BL	BL
55	Black body, IC	BL	BL	BL	BL	BL
56	Yellow body, capacitor	BL	BL	BL	BL	BL
57	Black soft plastic, big plug	BL	BL	BL	BL	BL
58	Multicolor plated silvery metal, big plug	BL	BL	BL	BL	NA
59	Coppery metal, wire core	BL	BL	BL	BL	NA
60	Pink soft plastic, thin wire jacket	BL	BL	BL	BL	BL
61	Black soft plastic, thick wire jacket	BL	BL	BL	BL	BL
62	Yellow soft plastic, thin wire jacket	BL	BL	BL	BL	BL
63	Off-white plastic, inner shell	BL	BL	BL	BL	BL
64	Silvery metal, big contact pin	BL	BL	BL	BL	NA
65	Silvery metal, solder(big plug 01)	BL	BL	BL	BL	NA
66	Black soft plastic, small plug	BL	BL	BL	BL	BL
67	Silvery metal, small plug	BL	BL	BL	BL	NA
68	Black-gray plastic, inner shell	BL	BL	BL	BL	BL
69	Silvery metal, small contact pin	BL	BL	BL	BL	NA
70	Silvery metal, solder(small plug 01)	BL	BL	BL	BL	NA
71	Grey cloth with silvery coating, brim	BL	BL	BL	BL	BL
72	Silvery metal, solder(Button contact sheet 02)	BL	BL	BL	BL	NA
73	Silvery metal, solder(LED PCB 02)	BL	BL	BL	BL	NA
74	Silvery metal, solder(LED PCB 03)	BL	BL	BL	BL	NA
75	Silvery metal, solder(LED PCB 04)	BL	BL	BL	BL	NA
76	Silvery metal, solder(LED PCB 05)	BL	BL	BL	BL	NA
77	Silvery metal, solder(LED PCB 06)	BL	BL	BL	BL	NA
78	Silvery metal, solder(LED PCB 07)	BL	BL	BL	BL	NA
79	Silvery metal, solder(LED PCB 08)	BL	BL	BL	BL	NA
80	Silvery metal, solder(LED PCB 09)	BL	BL	BL	BL	NA
81	Silvery metal, solder(LED PCB 10)	BL	BL	BL	BL	NA
82	Silvery metal, solder(big PCB 02)	BL	BL	BL	BL	NA

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83	Silvery metal, solder(big PCB 03)	BL	BL	BL	BL	NA
84	Silvery metal, solder(big PCB 04)	BL	BL	BL	BL	NA
85	Silvery metal, solder(big PCB 05)	BL	BL	BL	BL	NA
86	Silvery metal, solder(big PCB 06)	BL	BL	BL	BL	NA
87	Silvery metal, solder(big PCB 07)	BL	BL	BL	BL	NA
88	Silvery metal, solder(big plug 02)	BL	BL	BL	BL	NA
89	Silvery metal, solder(small plug 02)	BL	BL	BL	BL	NA
90	Silvery metal, solder(big plug 03)	BL	BL	BL	BL	NA
91	Silvery metal, solder(big plug 04)	BL	BL	BL	BL	NA

Remark:

- (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 62321-3-1:2013.

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 50 - 3\sigma < X < 150 + 3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$
Br	mg/kg	$BL \leq 300 - 3\sigma < X$	--	$BL \leq 250 - 3\sigma < X$

Note:

BL = Below Limit

OL = Over Limit

X = Inconclusive

NA = Not Applicable

- (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 2011/65/EU and its amendment directives (EU) 2015/863 :

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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 diphenyl ethers (PBDEs)	1000

(4) 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.

(5) The selection of test portions was recommended by the client and the conclusion of chemical test is only for the selected portions.

(6) Materials #47, #57, #60~#62 and #66 are the test results of the resubmitted sample.

1.2 Hexavalent Chromium (Cr(VI))

Metal: IEC 62321-7-1:2015, extracted by boiling water and analyzed by UV-Vis

Non-metal: IEC 62321-7-2:2017, alkaline digested and analyzed by UV-Vis

Compound		Material		Limit	RL
		23	44		
1	Hexavalent Chromium (Cr(VI))	Negative	Negative	#	-
	Conclusion	PASS	PASS	-	-

Remark(s): (a) $\mu\text{g}/\text{cm}^2$: microgram per square centimeter

(b) RL: Report Limit

(c) Negative = Sample Cr(VI) concentration is less than $0.10 \mu\text{g}/\text{cm}^2$

Positive = Sample Cr(VI) concentration is greater than $0.13 \mu\text{g}/\text{cm}^2$

(d) # = Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as conflict with RoHS requirement.

Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as no conflict with RoHS requirement.

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1.3 Polybrominated Biphenyls and Polybrominated Diphenyl Ethers (PBBs and PBDEs) IEC 62321-6:2015, solvent extract and determined by GC/MS

Compound		Material				Limit (mg/kg)	RL (mg/kg)
		12	31	33	50		
1	Monobromo biphenyl	N.D.	N.D.	N.D.	N.D.	-	50
2	Dibromo biphenyl	N.D.	N.D.	N.D.	N.D.	-	50
3	Tribromo biphenyl	N.D.	N.D.	N.D.	N.D.	-	50
4	Tetrabromo biphenyl	N.D.	N.D.	N.D.	N.D.	-	50
5	Pentabromo biphenyl	N.D.	N.D.	N.D.	N.D.	-	50
6	Hexabromo biphenyl	N.D.	N.D.	N.D.	N.D.	-	50
7	Heptabromo biphenyl	N.D.	N.D.	N.D.	N.D.	-	50
8	Octabromo biphenyl	N.D.	N.D.	N.D.	N.D.	-	50
9	Nonabromo biphenyl	N.D.	N.D.	N.D.	N.D.	-	50
10	Decabromo biphenyl	N.D.	N.D.	N.D.	N.D.	-	50
11	Monobromo diphenyl ether	N.D.	N.D.	N.D.	N.D.	-	50
12	Dibromo diphenyl ether	N.D.	N.D.	N.D.	N.D.	-	50
13	Tribromo diphenyl ether	N.D.	N.D.	N.D.	N.D.	-	50
14	Tetrabromo diphenyl ether	N.D.	N.D.	N.D.	N.D.	-	50
15	Pentabromo diphenyl ether	N.D.	N.D.	N.D.	N.D.	-	50
16	Hexabromo diphenyl ether	N.D.	N.D.	N.D.	N.D.	-	50
17	Heptabromo diphenyl ether	N.D.	N.D.	N.D.	N.D.	-	50
18	Octabromo diphenyl ether	N.D.	N.D.	N.D.	N.D.	-	50
19	Nonabromo diphenyl ether	N.D.	N.D.	N.D.	N.D.	-	50
20	Decabromo diphenyl ether	N.D.	N.D.	N.D.	N.D.	-	50
21	Sum of PBBs	N.D.	N.D.	N.D.	N.D.	1000	-

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22	Sum of PBDEs	N.D.	N.D.	N.D.	N.D.	1000	-
	Conclusion	PASS	PASS	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

1.4 Phthalates – (DBP, BBP, DEHP, DIBP) IEC 62321-8:2017, Solvent extract and determined by GC/MS

Compound			Material					Limit (%)	RL(%)
			10+16	11+14 +15	12	13	17		
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.005
	Conclusion		PASS	PASS	PASS	PASS	PASS	-	-

Compound			Material					Limit (%)	RL(%)
			18	19+21 +22	20	25+31 +37	28+35 +36		
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.005
	Conclusion		PASS	PASS	PASS	PASS	PASS	-	-

Compound			Material					Limit (%)	RL(%)
			29	33+39 +50	42+45 +48	47+57 +60	53+54 +55		
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.005

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2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.005
Conclusion			PASS	PASS	PASS	PASS	PASS	-	-

Compound			Material				Limit (%)	RL(%)
			56	61+62+66	63+68	71		
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
Conclusion			PASS	PASS	PASS	PASS	-	-

Remark(s): (a) RL: Report limit
(b) N.D.: Not detected (result is less than RL)

Photo(s):



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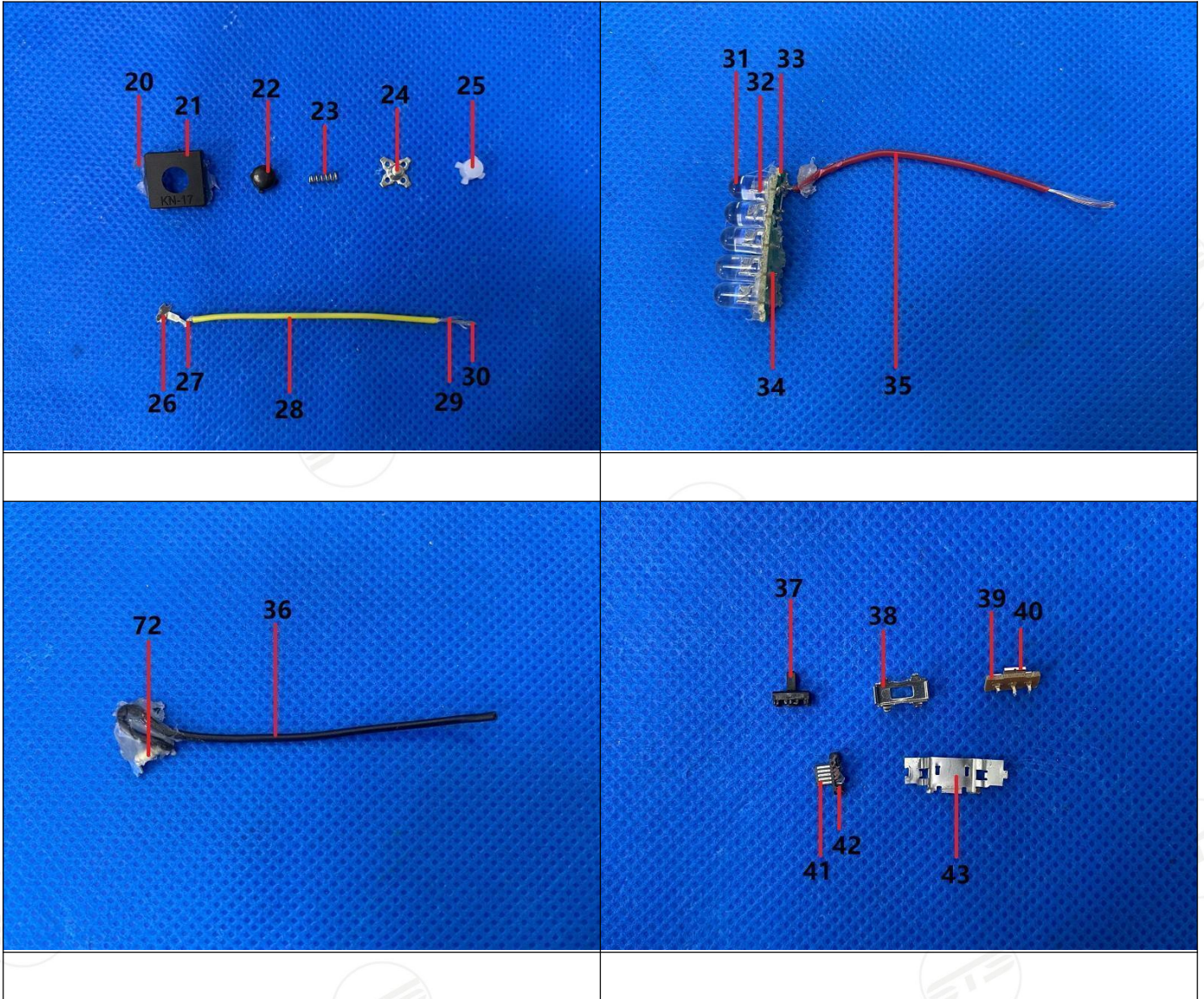


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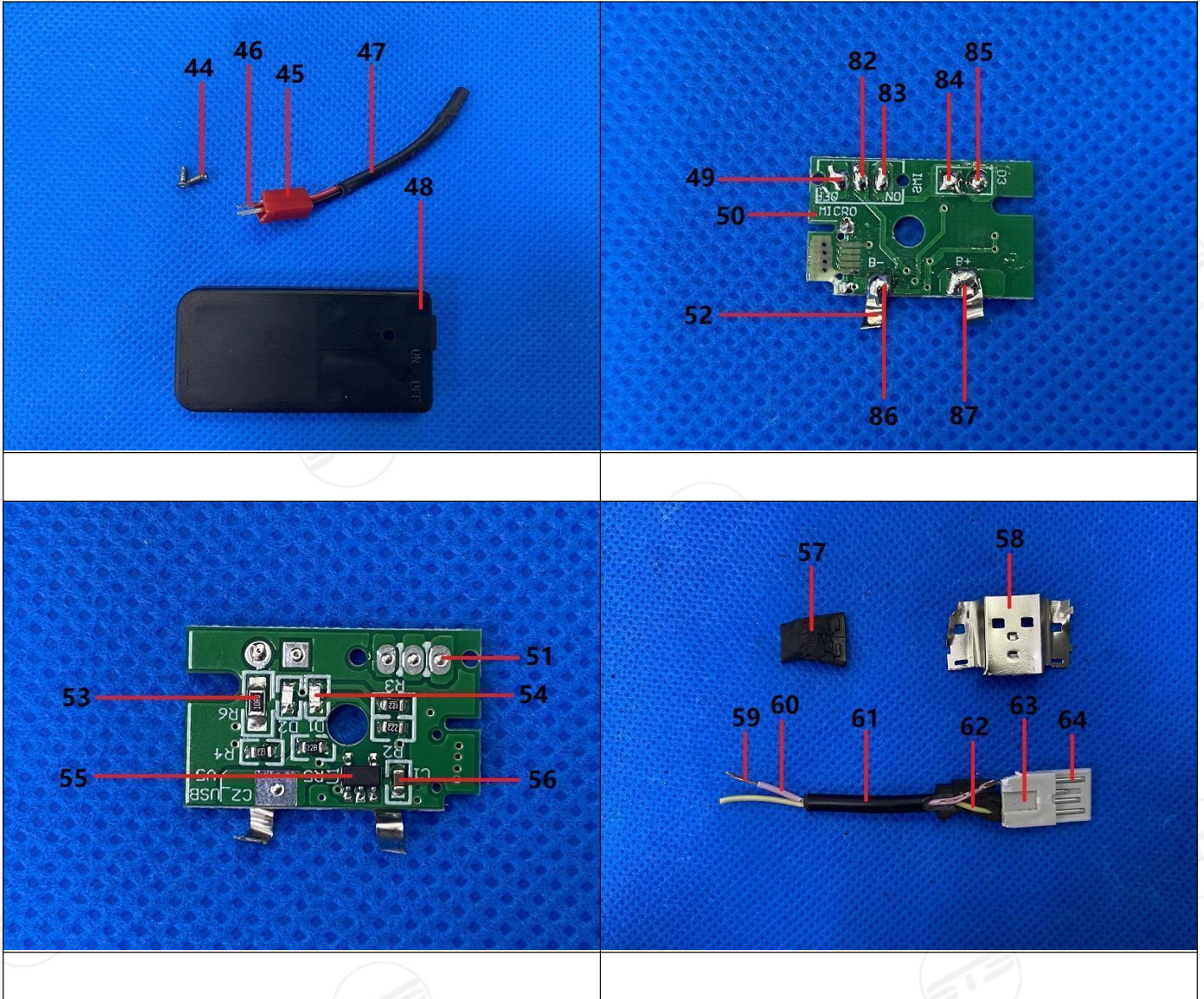


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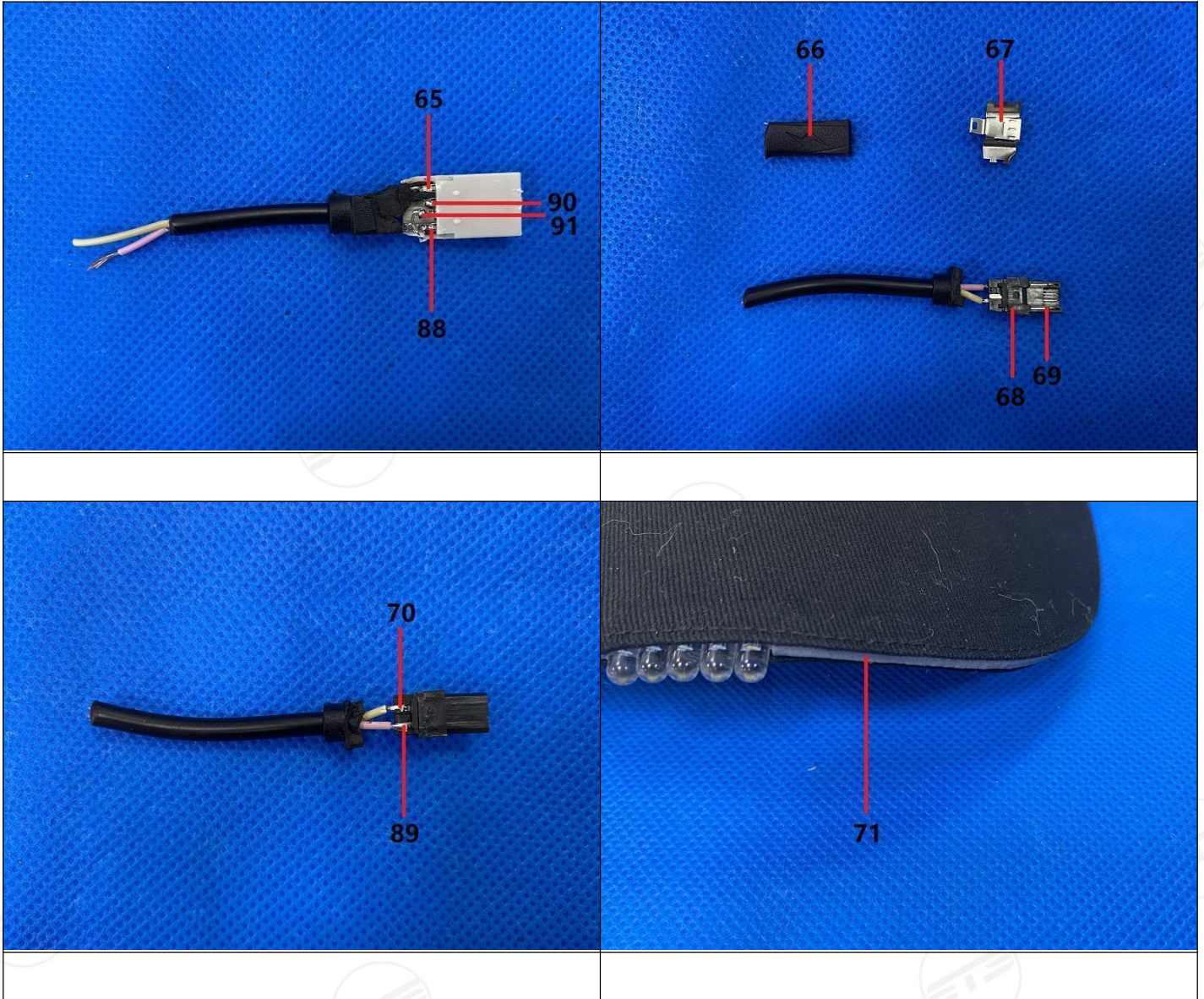


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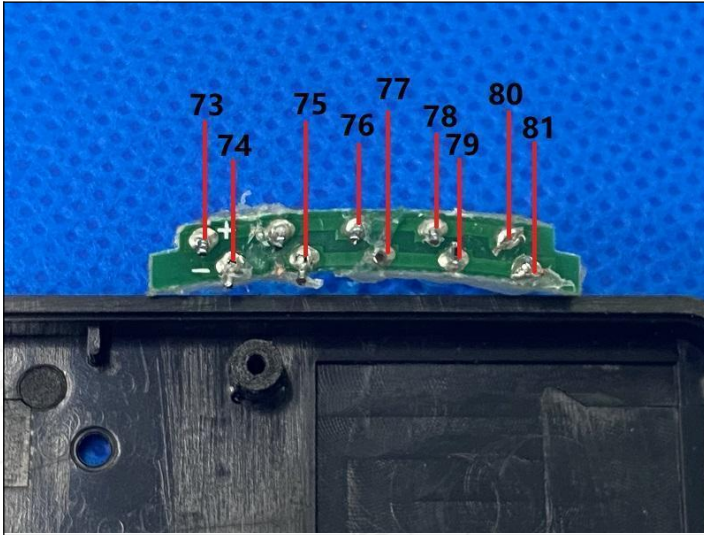


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Product Photo

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签发测试报告条款

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All samples and goods are accepted by the Guangzhou Depuhua Test Services Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").
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9. 该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的,检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限,数据和信息将被处理掉。任何情况下,本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害,本公司在任何情况下也不必承担任何损害,包括(但不限于)补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权(包括疏忽)、产品责任或其他原因的惩罚性损害。
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