

Test report

T-24351380-11-R1



Verify Report

Overall result

Pass

Please refer to the following pages for test result summary and notes.

Client information

Client: Mid Ocean Brands B.V.
Address: 7/F, Kings Tower, 111 King Lam Street, Cheung
Sha Wan, Kowloon, Hong Kong



Sample information

Description:	Bamboo finish kitchen scale	Labeled age grade:	-
SKU/style #:	MO6245	Tested age grade:	-
Country of origin:	-	Material/Composition:	ABS,Bamboo
Country of distribution:	Europe		
Vendor code:	118518		
Quantity submitted:	5 pcs		

General information

Sample receipt date:	05-Dec-2024	Report date:	07-Jan-2025
Testing period:	05-Dec-2024 to 13-Dec-2024, 18-Dec-2024 to 27-Dec-2024		

QIMA (Hangzhou) Testing Co., Ltd.

Jeremy Xu
Chemical Laboratory Manager



Verify Report



Result summary

At the request of the client, the following test were conducted:

Test(s) conducted	Conclusion
Directive 2011/65/EU and its amendment Directive (EU) 2015/863, Restriction of the Use of Certain Hazardous Substances (RoHS), Phthalates Content ^ϕ	Pass
Directive 2011/65/EU and its amendment Directive (EU) 2015/863, Restriction of the Use of Certain Hazardous Substances (RoHS), Heavy metals and Flame retardants content (Pb, Cd, Hg, Cr (VI), PBBs and PBDEs) ^ϕ	Pass

Test(s) marked with ^ϕ indicate tests performed in external laboratories.





Detailed results

Directive 2011/65/EU and its amendment Directive (EU) 2015/863, Restriction of the Use of Certain Hazardous Substances (RoHS), Phthalates Content ^φ

Test Method: EN 62321-8:2017
Analytical Method: Gas Chromatography/Mass Spectrometry

Specimen No.		1+2+13	3+5+7	4+8	6+9+11	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
DBP	84-74-2	ND	ND	ND	ND	1000
BBP	85-68-7	ND	ND	ND	ND	1000
DEHP	117-81-7	ND	ND	ND	ND	1000
DIBP	84-69-5	ND	ND	ND	ND	1000
Conclusion		Pass	Pass	Pass	Pass	

Specimen No.		10+12+14	15	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
DBP	84-74-2	ND	ND	---	---	1000
BBP	85-68-7	ND	ND	---	---	1000
DEHP	117-81-7	ND	ND	---	---	1000
DIBP	84-69-5	ND	ND	---	---	1000
Conclusion		Pass	Pass	---	---	

Note:
DBP = Dibutyl phthalate; BBP = Benzyl butyl phthalate; DEHP = Di-(2-ethylhexyl) phthalate; DIBP = Di-iso-Butyl phthalate
mg/kg = Milligrams per kilogram
ND = Not detected (Reporting Limit =50mg/kg)





Detailed results

Directive 2011/65/EU and its amendment Directive (EU) 2015/863, Restriction of the Use of Certain Hazardous Substances (RoHS), Heavy metals and Flame retardants content (Pb, Cd, Hg, Cr (VI), PBBs and PBDEs) ^φ

Test Method: EN 62321-3-1:2013 for Cadmium, Lead, Mercury, Chromium and Bromine by XRF
 EN 62321-4:2013/AMD1:2017 for Mercury by ICP-OES
 EN 62321-5:2013 for Lead, Cadmium and Chromium by ICP-OES
 EN 62321-6:2015 for PBBs and PBDEs by GC-MS
 EN 62321-7-1:2015, EN 62321-7-2:2017 for Hexavalent Chromium by UV- Vis

Analytical Method: X-ray Fluorescence Spectrometry
 Inductively Coupled Plasma-Optical Emission Spectrometry
 Gas Chromatography Mass Spectrometry
 UV-Visible Spectrophotometry

Specimen No.	Test Item (mg/kg)						Conclusion
	Pb	Cd	Hg	Cr (VI)	PBBs	PBDEs	
1	BL	BL	BL	BL	BL	BL	Pass
2	BL	BL	BL	BL	ND	ND	Pass
3	BL	BL	BL	BL	BL	BL	Pass
4	BL	BL	BL	BL	BL	BL	Pass
5	BL	BL	BL	BL	BL	BL	Pass
6	BL	BL	BL	BL	BL	BL	Pass
7	BL	BL	BL	BL	BL	BL	Pass
8	BL	BL	BL	BL	BL	BL	Pass
9	BL	BL	BL	BL	BL	BL	Pass
10	BL	BL	BL	BL	BL	BL	Pass
11	BL	BL	BL	BL	ND	ND	Pass
12	BL	BL	BL	BL	BL	BL	Pass
13	BL	BL	BL	BL	BL	BL	Pass
14	BL	BL	BL	BL	BL	BL	Pass
15	BL	BL	BL	BL	BL	BL	Pass
16	BL	BL	BL	BL	NA	NA	Pass
17	BL	BL	BL	Ne	NA	NA	Pass
18	BL	BL	BL	Ne	NA	NA	Pass
19	BL	BL	BL	BL	NA	NA	Pass
20	BL	BL	BL	BL	NA	NA	Pass
21	BL	BL	BL	BL	BL	BL	Pass
22	BL	BL	BL	BL	BL	BL	Pass
23	BL	BL	BL	BL	BL	BL	Pass
24	BL	BL	BL	BL	NA	NA	Pass
25	BL	BL	BL	BL	BL	BL	Pass
26	BL	BL	BL	BL	NA	NA	Pass
27	BL	BL	BL	Ne	NA	NA	Pass
28	BL	BL	BL	BL	NA	NA	Pass





Parameter	Unit	Requirement	Report Limit (MDL)
Lead (Pb)	mg/kg	1000	10
Cadmium (Cd)	mg/kg	100	10
Mercury (Hg)	mg/kg	1000	10
Chromium VI (Cr VI) (metal)	ug/cm ²	1000	Positive(>0.13ug/cm ²)/Negative(<0.10ug/cm ²) /Inconclusive(0.10ug-0.13ug/cm ²)
Chromium VI (Cr VI) (non-metal)	mg/kg	1000	10
PBB	mg/kg	1000	20
PBDE	mg/kg	1000	20

ED-XRF Detection Limits In mg/kg For Regulated Elements Matrices

Parameter	Unit	Polymers	Metals	Composite material
Lead (Pb)	mg/kg	100	200	200
Cadmium (Cd)	mg/kg	50	70	70
Mercury (Hg)	mg/kg	100	200	200
Chromium (Cr)	mg/kg	100	200	200
Bromine (Br)	mg/kg	200	---	200

As specified by client, with XRF analysis toxic harmful substance content, All kinds of matrixes screening of the element is limited see chart (Unit: mg/kg)

Elements	Polymer material	Metal material/ Inorganic nonmetallic material	Electronic component
Lead (Pb)	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cadmium (Cd)	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Mercury (Hg)	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Chromium (Cr)	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$
Bromine (Br)	$BL \leq (300-3\sigma) < X$	-	$BL \leq (250-3\sigma) < X$





Note:

1. Unit: mg/kg= Milligrams per kilogram, 1mg/kg=1ppm=0.0001%
2. MDL=Method Detection Limit
3. "NA"= Not Regulated or Not Applicable.
4. 3σ = Analysis shows that the instrument reproducibility.
5. BL = Below Limit by XRF screening.
OL = Over Limit by XRF screening.
IN = Inconclusive.
6. ND=Not Detected (< MDL), Result reported with wet chemical confirmation test with ICP-OES and GC-MS.
7. Ne=Negative, Absence of Cr(VI), the concentration of Cr (VI) in sample solution is less than $0.10\mu\text{g}/\text{cm}^2$.
Po = Positive, Presence of Cr(VI), the concentration of Cr (VI) in sample solution is more than $0.13\mu\text{g}/\text{cm}^2$.
Result reported with wet chemical confirmation test with UV-Vis.
8. "Results of XRF" is the result on total Br and total Cr while restricted substances are PBB, PBDE and Cr(VI).
9. EX(*)= Exemption item.
 - *=6(a) Lead as alloying element in steel for machining purposes and in galvanized steel containing up to 0,35% lead by weight.
 - *=6(c) Copper alloy containing up to 4% lead by weight.
 - *=7(a) Lead in high-melting point solder (i.e. lead-based alloys with lead containing more than 85% lead by weight).
 - *=7(c)-I Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.
 - *=8(b) Cadmium and its compounds in electrical contacts.





Specimen description

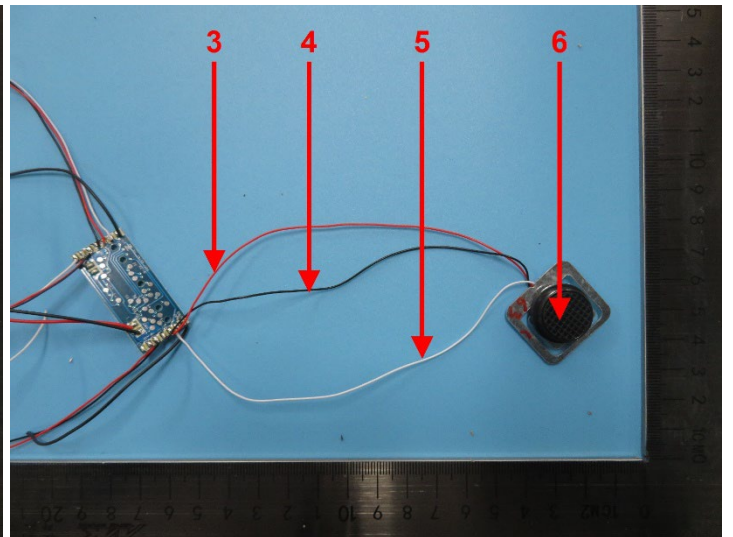
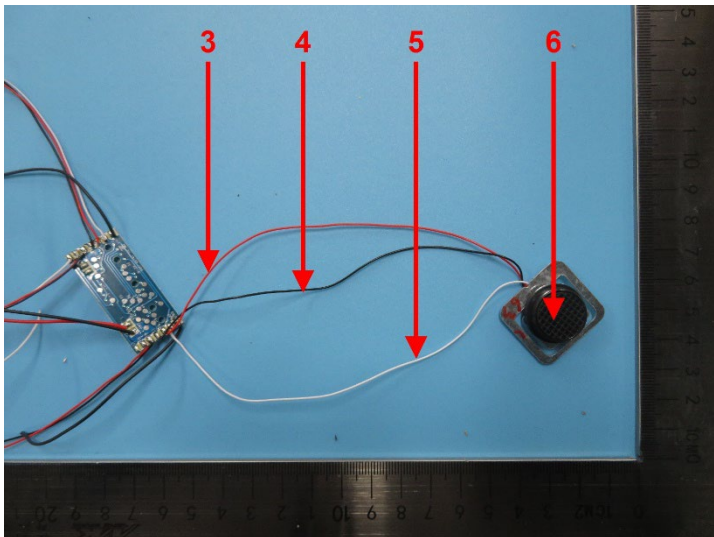
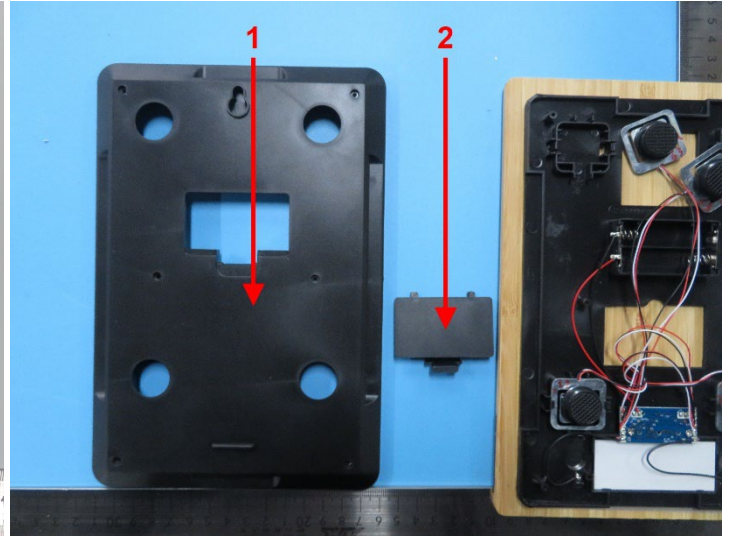
Specimen #	Specimen description	Location
1	Black plastic	Body
2	Black plastic	Body
3	Red soft plastic wire jacket	Inner Wire
4	Black soft plastic wire jacket	Inner Wire
5	White soft plastic wire jacket	Inner Wire
6	Black soft plastic	Base
7	Black soft plastic wire jacket	Inner Wire
8	Red soft plastic wire jacket	Inner Wire
9	Pink sponge	Display
10	Silvery soft plastic	Display
11	Transparent soft plastic	Display
12	White soft plastic tape	Inside
13	Transparent and black plastic	Inside
14	Gray soft plastic tape	Inside
15	Beige wood	Body
16	Silvery metal screw	Body
17	Silvery metal	Base
18	Silvery metal spring	Battery Box
19	Silvery metal	Battery Box
20	Silvery metal solder	Battery Box
21	Brown chip capacitor	PCB
22	Black IC	PCB
23	Black IC	PCB
24	Silvery metal solder	PCB
25	Blue PCB	PCB
26	Transparent glass	Display
27	Silvery metal	Inside
28	Silvery metal solder	Inside





Pictures

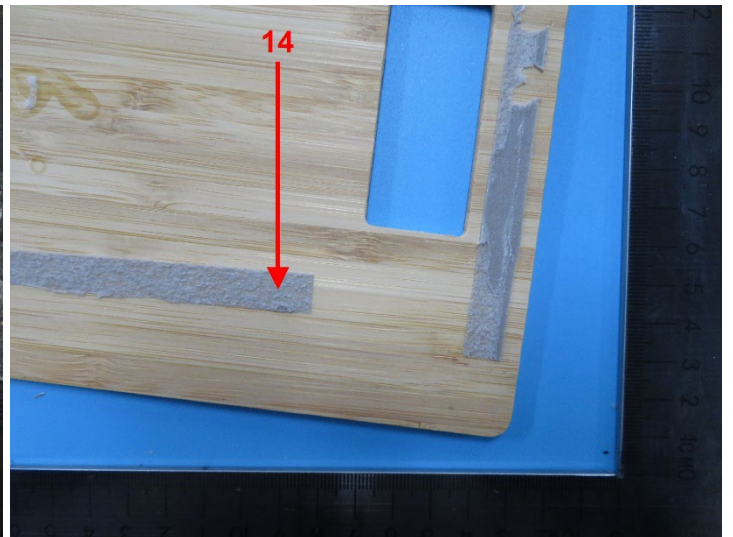
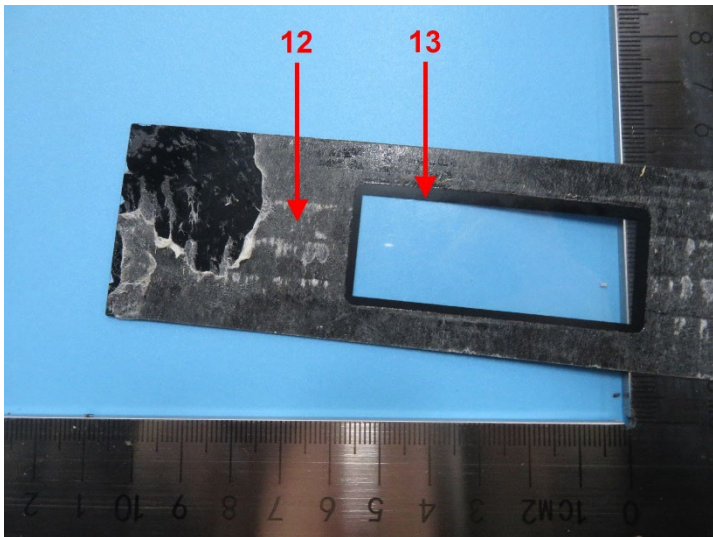
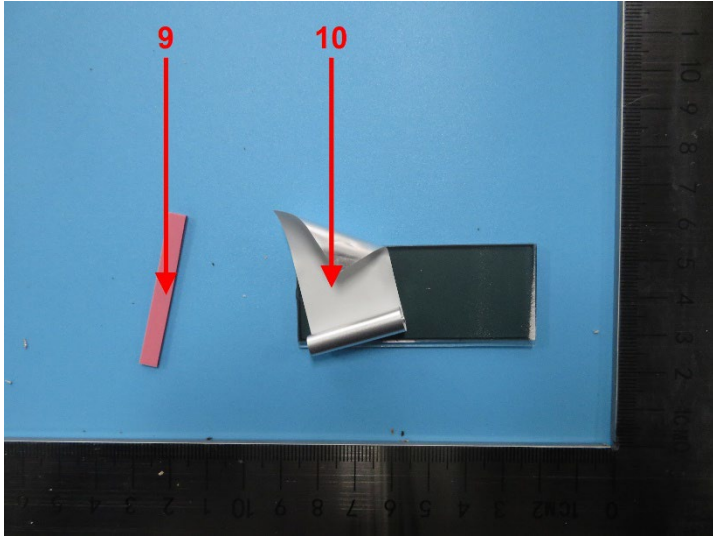
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Pictures

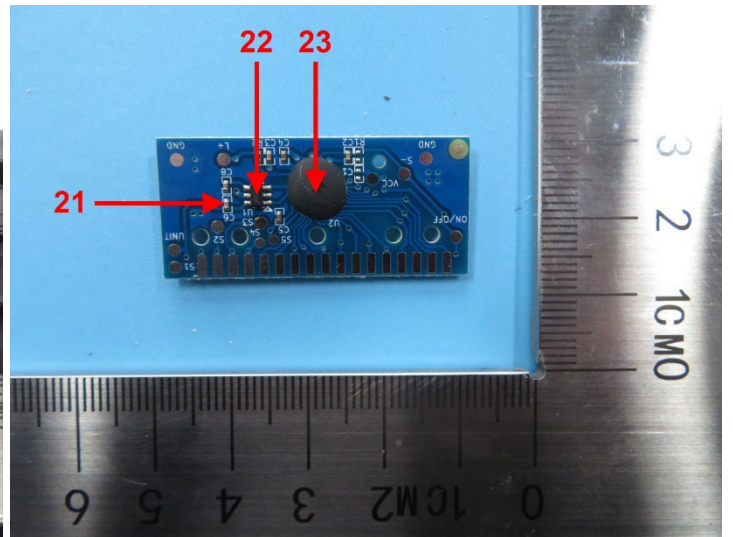
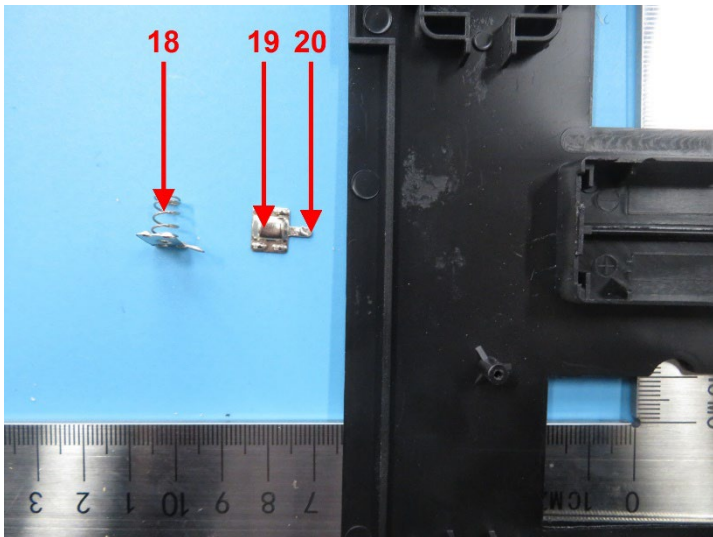
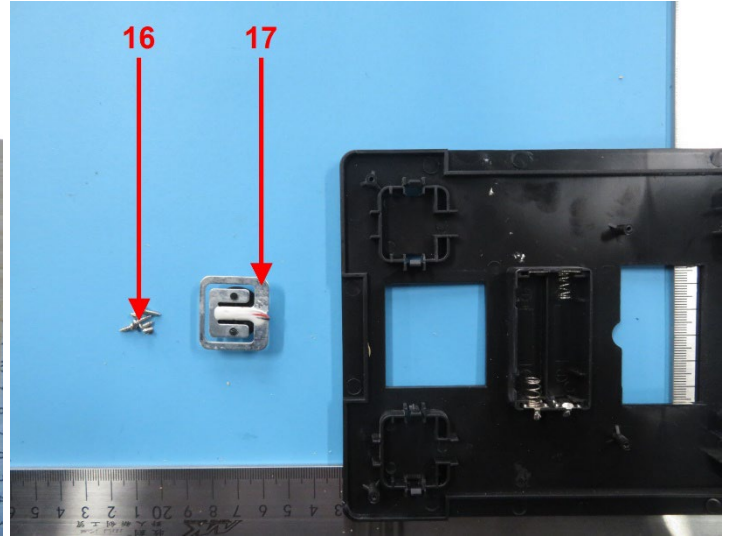
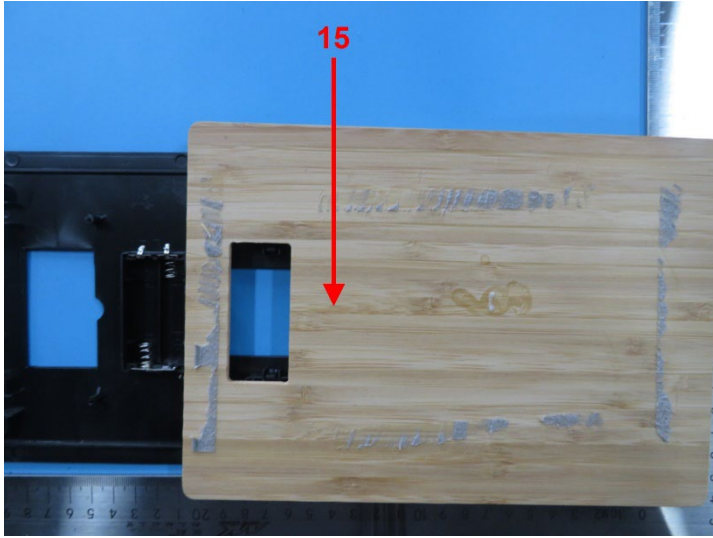
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Pictures

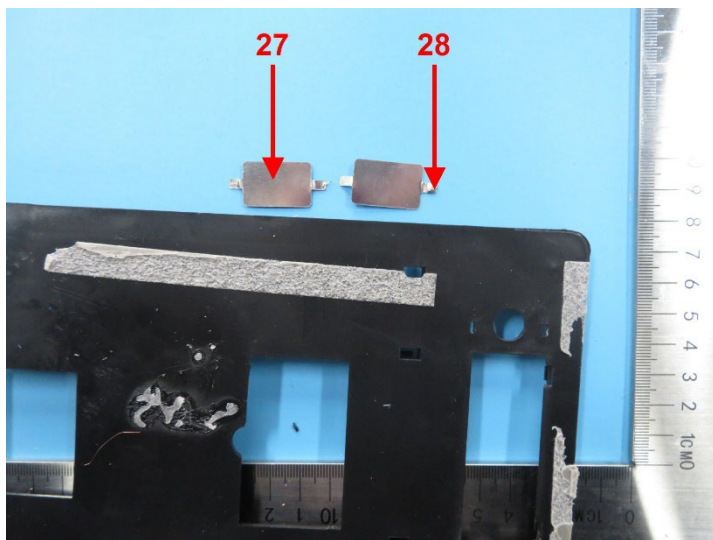
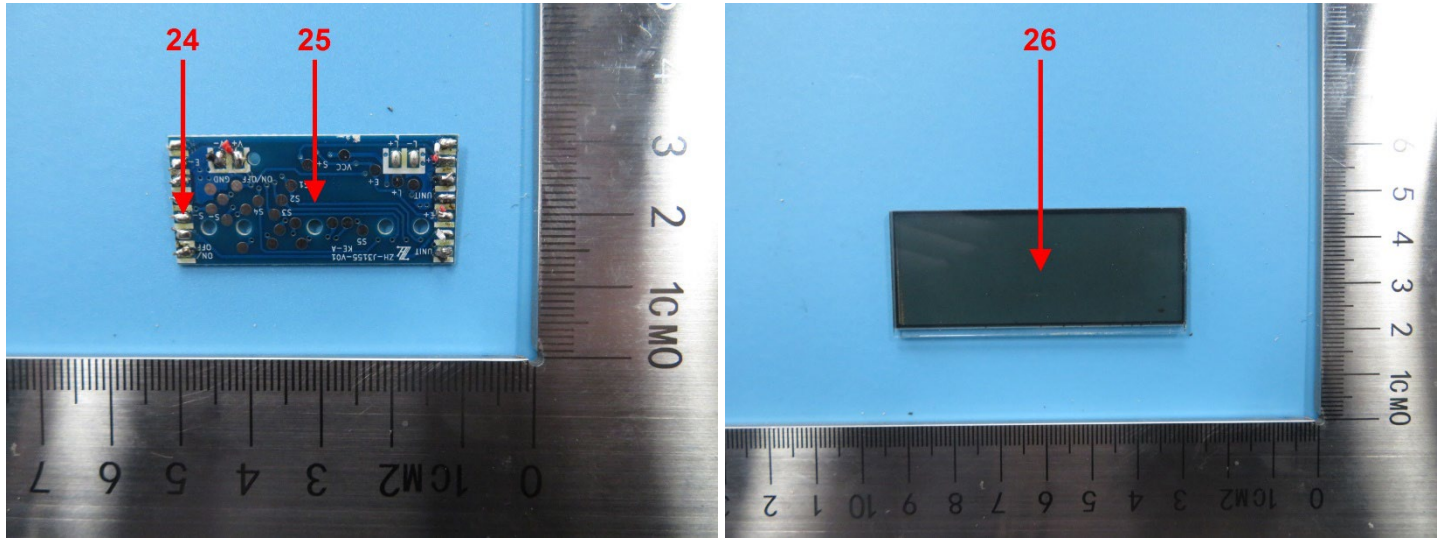
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Pictures

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End of the report

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and the method /regulation section(s) tested as described herein. If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule. (<https://www.qima.com/conditions-of-service#decisionRule>). This test report may not be reproduced in whole or in part, without the written approval of QIMA (Hangzhou) Testing Co., Ltd.

