

## Verification Report

No. HKTEC2404305703

Date : 25 Nov 2024

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Client name: TOYO LED ELECTRONICS LIMITED

Client address: UNIT 10-11, 19/F, METRO LOFT, 38 KWAI HEI STREET, KWAI CHUNG, NEW TERRITORIES, HONG KONG.

The content of this test report except sample name, Item No. Given by Client and sample photo is extracted from the test report number HKTEC2404305701 where the sample is claimed to be identical.

Sample name: LED DISPLAY, SMD DISPLAY, CUSTOM DESIGN LED DISPLAY, SMD LED, TOP VIEW LED (PLCC), THROUGH HOLE LED, INFRARED & PHOTOTRANSISTOR

Item No. Given by Client: CE57262-L1-UR1-0-F1-SMT1(H50), CE55441-I-UR1WH-0-WF-MT-SMT1 (H61) , CSD20211-I-UR1UY1-0-W-SMT2(M1), SD10201-G-UR3-8-W-TR, CE90353-L-UR1PGBLWH-9-F-SMT2 (10.0), CE31101-0-F, E10392-G-UR-0-W, CSD10303-J-UR3PGWH-0-F-SMT2-TR, E20501-L6-WH-0-WF(3.0), E40391-I17-UG6-0-WF(19), TY-50UV4W15-2500Z-T8, TY-50UDR4W20-3600-T8, TY-304YG1TD40-30B4-T9 (0601-002106) , TY-30PW1W30-8000(16), TY-50WW5W30-10000-A01, TY-50HIR4W15-850-50, TY-30PT4WC-4, TY-5050RGB1, TY-3528PW1-2000, TY-Y0606RGB3(0.60)-R1, TY-CLDSV1204IR1(2.10)-940, TY-X0603CW1(0.40), TY-YSV1204RGB1(1.50)-R34, TY-AO3020CW1-0.1W

Manufacturer: TOYO LED

The above sample(s) and information were provided by client.

SGS Job No.: 5497820 - HK

Date of sample received: 02 Sep 2024

Verification Period: 02 Sep 2024 - 25 Sep 2024

Verification Requested: : With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.

Verification Method(s): : Please refer to next page(s).

Verification Result(s): : Please refer to next page(s).

### Test Result Summary

Test Items	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	PASS

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Signed for and on behalf of  
SGS Hong Kong Limited

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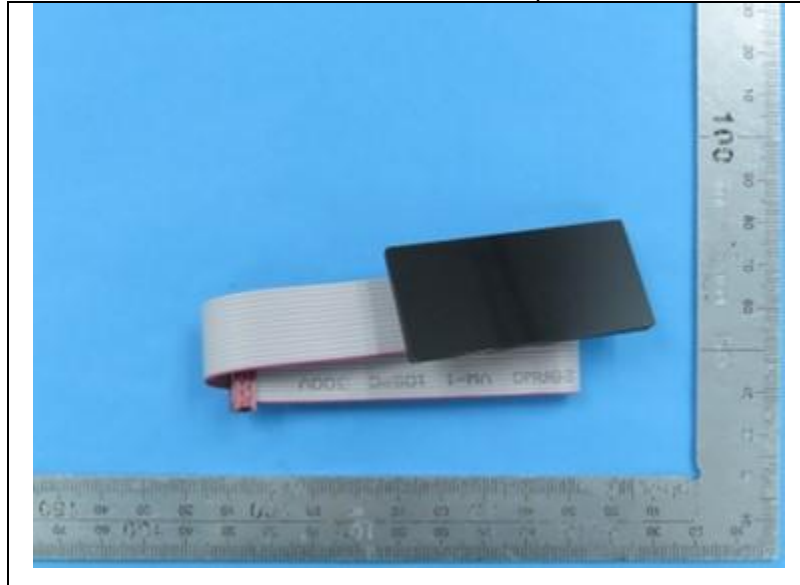
Lam Ka Yung, Allen  
Senior Chemist

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Photo of Submitted Sample



### Verification Methods:

1. With reference to IEC 62321-2:2021, disassembly and disjointment were performed for the submitted samples.
2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report
  - (1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy (Decision Rule; please refer to appendix 1: Category 5).
  - (2) Wet chemical test method: With reference to IEC 62321-4:2013+A1:2017 (Decision Rule: please refer to appendix 1: Category 1), IEC62321-5:2013 (Decision Rule: please refer to appendix 1: Category 1), IEC 62321-7-1:2015 (Decision Rule: please refer to appendix 1: Category 4), IEC 62321-7-2:2017 (Decision Rule: please refer to appendix 1: Category 1), IEC 62321-6:2015 (Decision Rule: please refer to appendix 1: Category 1) and IEC62321-8:2017 (Decision Rule: please refer to appendix 1: Category 1), analyzed by ICP-OES, UV-Vis and GC-MS.

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### Verification Part Description:

SN ID	SGS Sample ID	Description
SN1	HKT24-043057.032	White/ translucent plastic w/ grey coating - LED display case
SN2	HKT24-043057.033	Dark green glass fiber w/ white printing w/ golden metal - PCB
SN3	HKT24-043057.034	Translucent plastic w/ black coating w/ white printing w/ adhesive - LED display film
SN4	HKT24-043057.035	White plastic - LED display case
SN5	HKT24-043057.036	Silvery metal - Pin
SN6	HKT24-043057.037	Black glass fiber w/ multicolor coating - PCB w/ solder
SN7	HKT24-043057.038	Transparent yellow/ white plastic w/ green printing w/ silvery metal w/ chips - SMD LED
SN8	HKT24-043057.039	Transparent/ white plastic w/ green printing w/ silvery metal w/ chips - SMD LED
SN9	HKT24-043057.040	White plastic w/ black coating - LED display case
SN10	HKT24-043057.041	Translucent plastic w/ black/ white coating w/ adhesive - LED display film
SN11	HKT24-043057.042	White/ translucent plastic w/ black coating - LED display case
SN12	HKT24-043057.043	Silvery metal - Pin
SN13	HKT24-043057.044	Black glass fiber w/ translucent plastic w/ golden metal - PCB
SN14	HKT24-043057.045	Transparent plastic w/ black coating w/ white printing w/ adhesive - LED display film
SN15	HKT24-043057.046	White plastic w/ black coating - LED display case
SN16	HKT24-043057.047	Black glass fiber w/ golden metal - PCB
SN17	HKT24-043057.048	Transparent/ white plastic w/ green printing w/ silvery metal w/ chips - SMD LED
SN18	HKT24-043057.049	Transparent yellow/ white plastic w/ green printing w/ silvery metal w/ chips - SMD LED
SN19	HKT24-043057.050	White plastic w/ black coating w/ yellow printing w/ adhesive - LED display film
SN20	HKT24-043057.051	White/ translucent plastic w/ black coating - LED display case
SN21	HKT24-043057.052	Silvery metal - Pin
SN22	HKT24-043057.053	Black glass fiber w/ translucent plastic w/ silvery metal - PCB
SN23	HKT24-043057.054	Translucent plastic w/ black coating w/ adhesive - LED display film
SN24	HKT24-043057.055	White/ translucent plastic w/ black coating - LED display case
SN25	HKT24-043057.056	Silvery metal - Pin
SN26	HKT24-043057.057	Black plastic - Pin holder
SN27	HKT24-043057.058	Black glass fiber w/ translucent plastic w/ golden metal - PCB

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SN28	HKT24-043057.059	Transparent plastic w/ silvery metal w/ chips - LED
SN29	HKT24-043057.060	Silvery metal - Pin
SN30	HKT24-043057.061	Transparent plastic w/ silvery metal w/ chips - LED
SN31	HKT24-043057.062	Silvery metal - Pin
SN32	HKT24-043057.063	Transparent green plastic w/ silvery metal w/ chips - LED
SN33	HKT24-043057.064	Silvery metal - Pin
SN34	HKT24-043057.065	Transparent plastic w/ silvery metal w/ chips - LED
SN35	HKT24-043057.066	Silvery metal - Pin
SN36	HKT24-043057.067	Transparent plastic w/ silvery metal w/ chips - LED
SN37	HKT24-043057.068	Silvery metal - Pin
SN38	HKT24-043057.069	Transparent plastic w/ silvery metal w/ chips - LED
SN39	HKT24-043057.070	Silvery metal - Pin
SN40	HKT24-043057.071	Transparent plastic w/ silvery metal w/ chips - LED
SN41	HKT24-043057.072	Silvery metal - Pin
SN42	HKT24-043057.073	White/ transparent plastic w/ silvery metal w/ chips - SMD LED
SN43	HKT24-043057.074	Transparent yellow/ white plastic w/ silvery metal w/ chips - SMD LED
SN44	HKT24-043057.075	Transparent/ white plastic w/ golden metal w/ chips - SMD LED
SN45	HKT24-043057.076	Transparent/ white plastic w/ green printing w/ golden metal w/ chips - SMD LED
SN46	HKT24-043057.077	Transparent yellow/ white plastic w/ green printing w/ silvery metal w/ chips - SMD LED
SN47	HKT24-043057.078	Transparent/ white plastic w/ green printing w/ golden metal w/ chips - SMD LED
SN48	HKT24-043057.079	Transparent yellow/ white plastic w/ silvery metal w/ chips - SMD LED
SN49	HKT24-043057.080	Black paint
SN50	HKT24-043057.081	Black solid
SN51	HKT24-043057.082	Black paint

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### Verification Results:

In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified.

#### Result(s)

Test Item(s)	32
Pb	BL
Cd	BL
Hg	BL
Cr(VI) ▼	BL
PBBs	BL
PBDEs	BL
DBP	BL
BBP	BL
DEHP	BL
DIBP	BL
Conclusion	PASS

Test Item(s)	33	34	35	36	37	38	39	40
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI) ▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	ND	BL	BL	---	ND	BL	BL	BL
PBDEs	ND	BL	BL	---	ND	BL	BL	BL
DBP	BL	BL	BL	---	BL	BL	BL	BL
BBP	BL	BL	BL	---	BL	BL	BL	BL
DEHP	BL	BL	BL	---	BL	BL	BL	BL
DIBP	BL	BL	BL	---	BL	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	41	42	43	44	45	46	47	48
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI) ▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	ND	---	ND	BL	BL	ND	BL
PBDEs	BL	ND	---	ND	BL	BL	ND	BL
DBP	BL	BL	---	BL	BL	BL	BL	BL
BBP	BL	BL	---	BL	BL	BL	BL	BL
DEHP	BL	BL	---	BL	BL	BL	BL	BL
DIBP	BL	BL	---	BL	BL	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

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### Result(s)

Test Item(s)	49	50	51	52	53	54	55	56
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI) ▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	BL	ND	---	ND	BL	ND	---
PBDEs	BL	BL	ND	---	ND	BL	ND	---
DBP	BL	BL	BL	---	BL	BL	BL	---
BBP	BL	BL	BL	---	BL	BL	BL	---
DEHP	BL	BL	BL	---	BL	BL	BL	---
DIBP	BL	BL	BL	---	BL	BL	BL	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	57	58	59	60	61	62	63	64
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI) ▼	BL	BL	BL	BL	BL	ND	BL	BL
PBBs	ND	ND	BL	---	BL	---	BL	---
PBDEs	ND	ND	BL	---	BL	---	BL	---
DBP	BL	BL	BL	---	BL	---	BL	---
BBP	BL	BL	BL	---	BL	---	BL	---
DEHP	BL	BL	BL	---	BL	---	BL	---
DIBP	BL	BL	BL	---	BL	---	BL	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	65	66	67	68	69	70	71	72
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI) ▼	BL	BL	BL	BL	BL	BL	BL	ND
PBBs	ND	---	BL	---	BL	---	ND	---
PBDEs	ND	---	BL	---	BL	---	ND	---
DBP	BL	---	BL	---	BL	---	BL	---
BBP	BL	---	BL	---	BL	---	BL	---
DEHP	BL	---	BL	---	BL	---	BL	---
DIBP	BL	---	BL	---	BL	---	BL	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

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### Result(s)

Test Item(s)	73	74	75	76	77	78	79	80
Pb	BL	BL	BL	BL	BL	BL	BL	ND
Cd	BL	BL	BL	BL	BL	BL	BL	ND
Hg	BL	BL	BL	BL	BL	BL	BL	ND
Cr(VI) ▼	BL	BL	BL	BL	BL	BL	BL	ND
PBBs	BL	BL	BL	ND	BL	BL	BL	ND
PBDEs	BL	BL	BL	ND	BL	BL	BL	ND
DBP	BL	BL	BL	BL	BL	BL	BL	ND
BBP	BL	BL	BL	BL	BL	BL	BL	ND
DEHP	BL	BL	BL	BL	BL	BL	BL	ND
DIBP	BL	BL	BL	BL	BL	BL	BL	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	81	82
Pb	ND	ND
Cd	ND	ND
Hg	ND	ND
Cr(VI) ▼	ND	ND
PBBs	ND	ND
PBDEs	ND	ND
DBP	ND	ND
BBP	ND	ND
DEHP	ND	ND
DIBP	ND	ND
Conclusion	PASS	PASS

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### Notes:

(1) Interpretation of screening results by X-ray fluorescence spectrometry (XRF):

(a) Screening limits in mg/kg for regulated elements in various matrices according to IEC 62321-1:2013 Annex A as below table.

Element	Polymer	Metal	Composite Materials
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	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	Not applicable	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(b) If the maximum allowed level restricts PBB/PBDE and Cr(VI) rather than Br and Cr, the exceptions are the XRF determinations of Br and Cr. If the quantitative results for the elements Br and/or are higher than the limit (for Br calculated based on the stoichiometry of Br in the most common congeners of PBB/PBDE), the sample is "inconclusive".

(c) Results are obtained by EDXRF for primary screening, LOD = Limit of Detection, BL = Below Limit, OL = Over Limit, IN (The symbol X marks the region)= Inconclusive, where further investigation is necessary, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs/PBDEs) are recommended to be performed.

(d) The EDXRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

(2) Screening results of Phthalates (PHTH) are for primary screening, and further chemical testing by GC-MS (for DBP, BBP, DEHP and DIBP) are recommended to be performed if the concentration exceeds the below warning value (unit: mg/kg).

Test Items	CAS No.	Polymer/ Composite Materials
Dibutyl Phthalate (DBP)	84-74-2	$BL \leq 600 < X$
Benzylbutyl Phthalate (BBP)	85-68-7	$BL \leq 600 < X$
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	$BL \leq 600 < X$
Diisobutyl Phthalate (DIBP)	84-69-5	$BL \leq 600 < X$

(3) Interpretation of results by chemical tests:

(a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not Applicable.

(b) Unit and MDL in wet chemical test

Test Items	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	10	10	10	100	100	100	100

The MDL for single compound of PBBs and PBDEs is 100 mg/kg.

MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg.

MDL of Cr(VI) for metal sample is 0.10µg/cm<sup>2</sup>.

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(c) ▼ =Metal sample

- a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13µg/cm<sup>2</sup>.  
The sample coating is considered to contain Cr(VI)
- b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10µg/cm<sup>2</sup>).  
The coating is considered a non-Cr(VI) based coating
- c. The result between 0.10µg/cm<sup>2</sup> and 0.13µg/cm<sup>2</sup> is considered to be inconclusive  
- unavoidable coating variations may influence the determination

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

- (4) Restricted substances and maximum concentration values tolerated by weight in homogeneous materials under RoHS Directive: Cd: 0.01%, Pb/Hg/Cr(VI)/PBBs/PBDEs/DEHP/DBP/BBP/DIBP: 0.1%.  
The limit is quoted from RoHS Directive (EU) 2015/863.
- (5) IEC 62321 series is equivalent to EN 62321 series.

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### Appendix 1

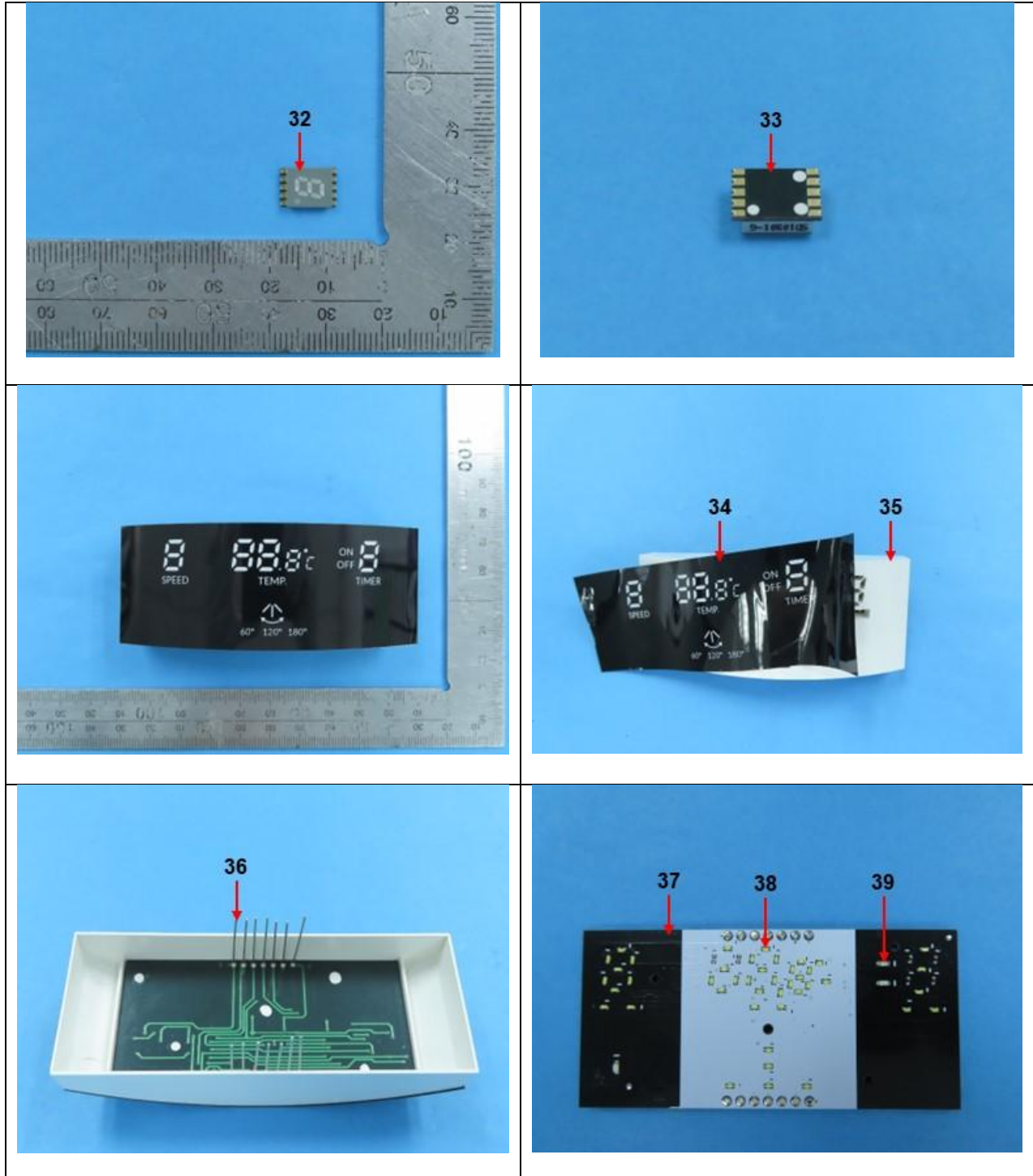
Category	Decision Rule Statement
1	<p>The decision rule for conformity reporting is based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability, <math>w = U95</math>) in ILAC-G8:09/2019 Clause 4.2.3.</p> <p>A. "Pass - the measured value is within (or below / above) the acceptance limit, where the acceptance limit is below / above to the guard band." or "Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%."</p> <p>B. "Conditional Pass - The measured values were observed in tolerance at the points tested. However, a portion of the expanded measurement uncertainty intervals about one or more measured values exceeded / out of tolerance. When the measured result is close to the tolerance, the specific false accept risk is up to 50%."</p> <p>C. "Conditional Fail - One or more measured values were observed out of tolerance at the points tested. However, a portion of the expanded measurement uncertainty intervals about one or more measured values were in tolerance. When the measured result is close to the tolerance, the specific false reject risk is up to 50%."</p> <p>D. "Fail - the measured value is out of (or below / above) the tolerance limit added / subtracted to the guard band." or "Fail - One or more measured values were observed out of tolerance at the points tested". The specific false reject risk is up to 2.5%.</p>
2	The decision rule for conformity reporting is based on EN 1811:2023: Reference test method for release of nickel from all post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin in Section 9.2 interpretation of results.
3	The decision rule for conformity reporting is based on the general consideration of simple acceptance as stated in ISO/IEC Guide 98-3: "Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM 1995)", and more specifically for analytical measurements to the EURACHEM/CITAC Guide 2012 "Quantifying Uncertainty in Analytical Measurement".
4	The decision rule for conformity reporting is according to the IEC 62321-7-1 Edition 1.0 2015-09 Section 7: Table 1 - (comparison to standard solutions and interpretation of result)
5	The decision rule for conformity reporting is according to the IEC 62321-3-1 Edition 1.0 2013-06 Annex A.3 interpretation of result.
6	The decision rule for conformity reporting is according to the GB/T 39560.701-2020 Section 7: Table 1 - (comparison to standard solutions and interpretation of result)
7	The decision rule for conformity reporting is according to the requested specification or standard (ASTM F963-23 section 4.3.5)
8	The decision rule for conformity reporting is according to the requested specification or standard (AS/NZS ISO 8124 Part 3 section 4.2)
9	The decision rule for conformity reporting is according to the GB/T 39560.301-2020 Annex A.3 interpretation of result
Remark	If the decision rule is not feasible to be used and the uncertainty of the result is able to be provided, the uncertainty range of the result will be shown in the report. Otherwise, only result will be shown in the report.

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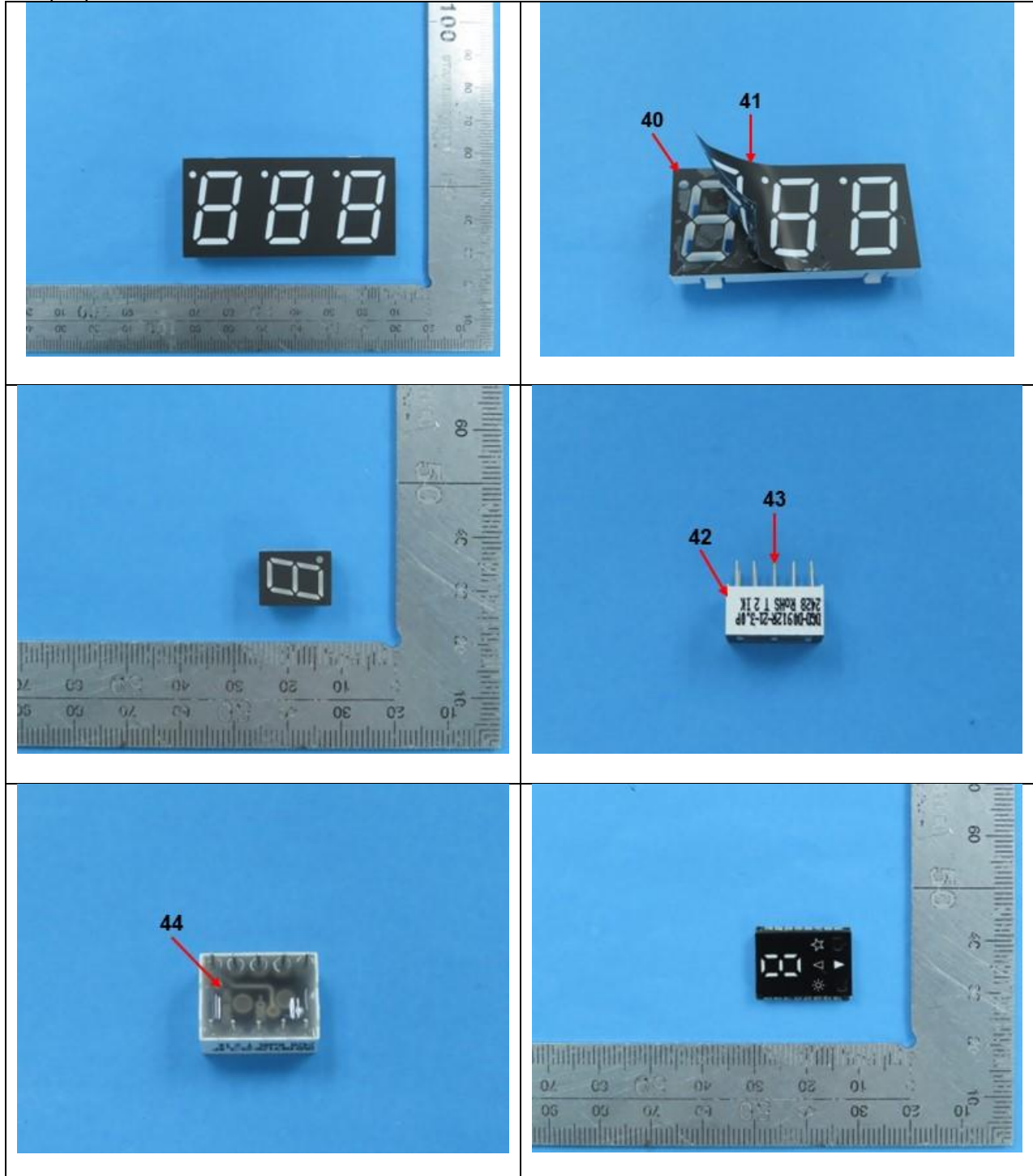
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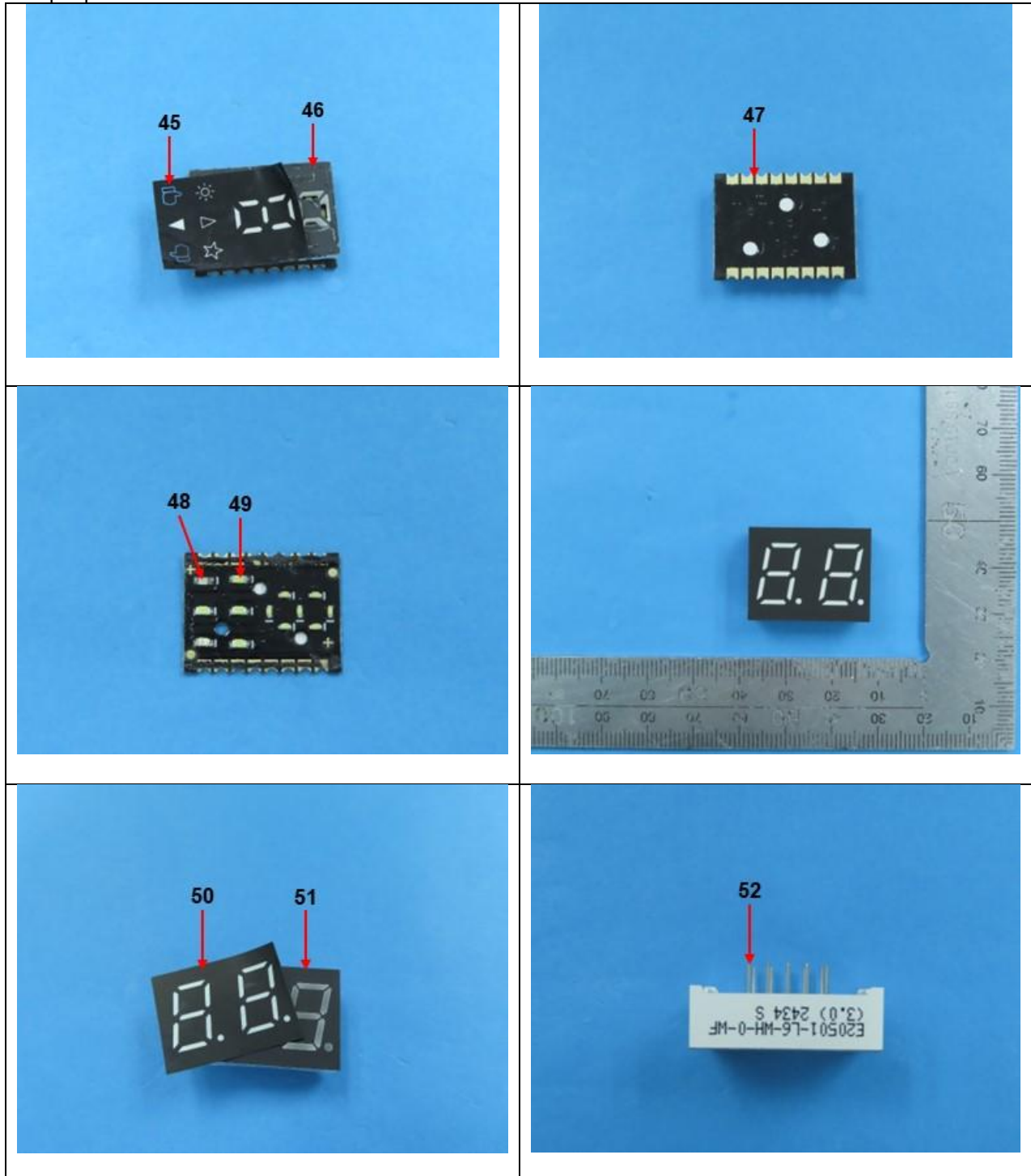
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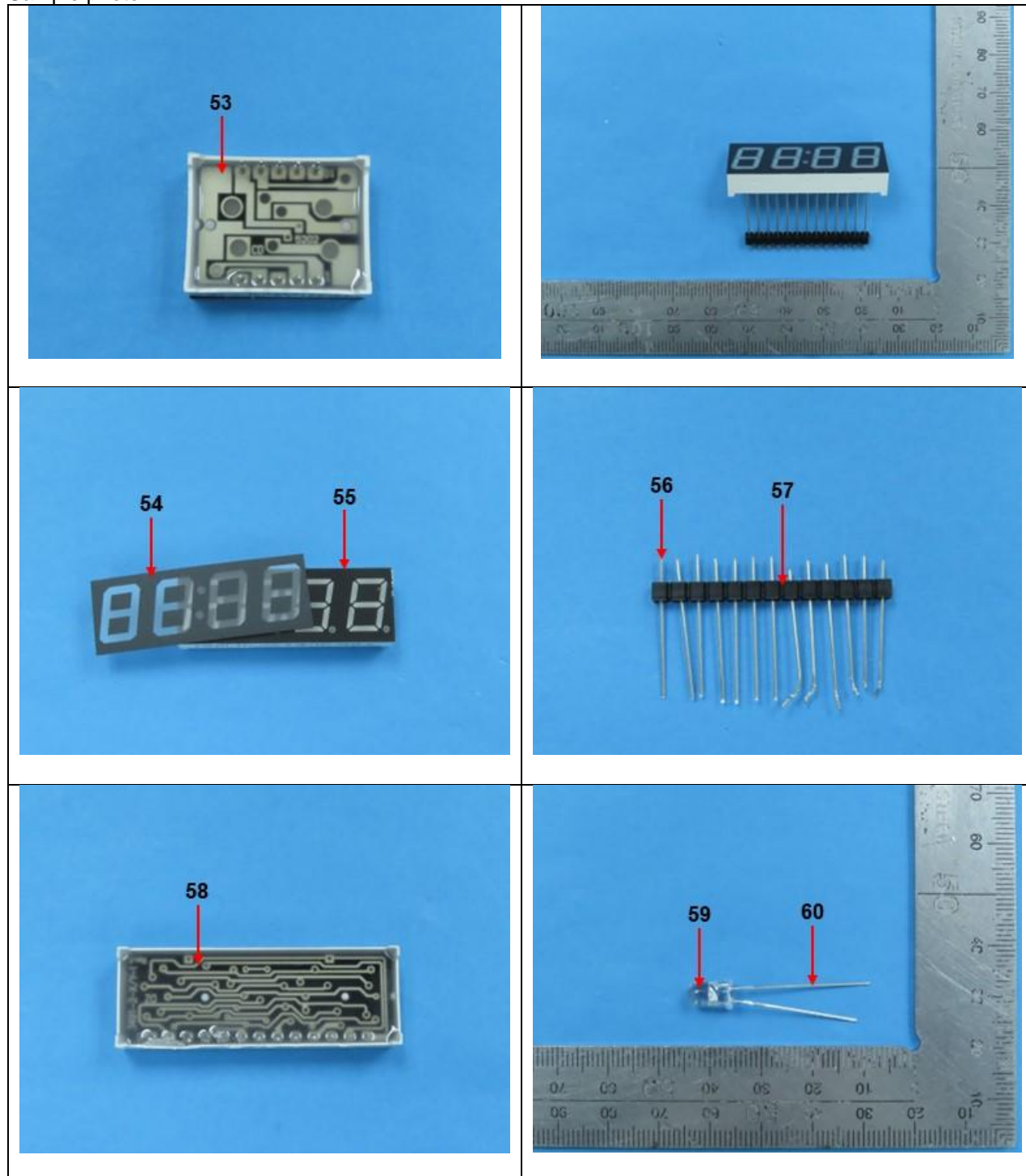
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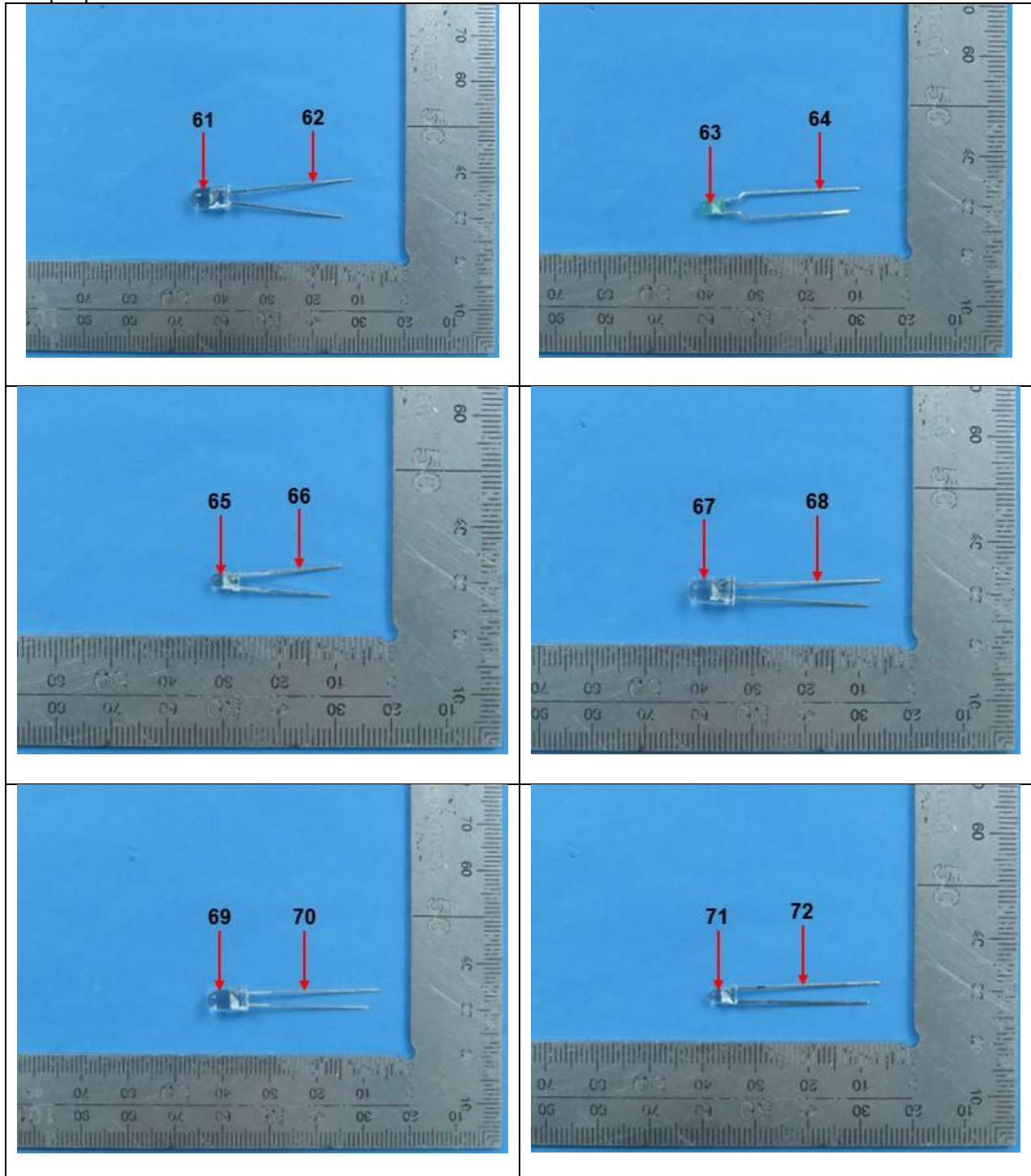
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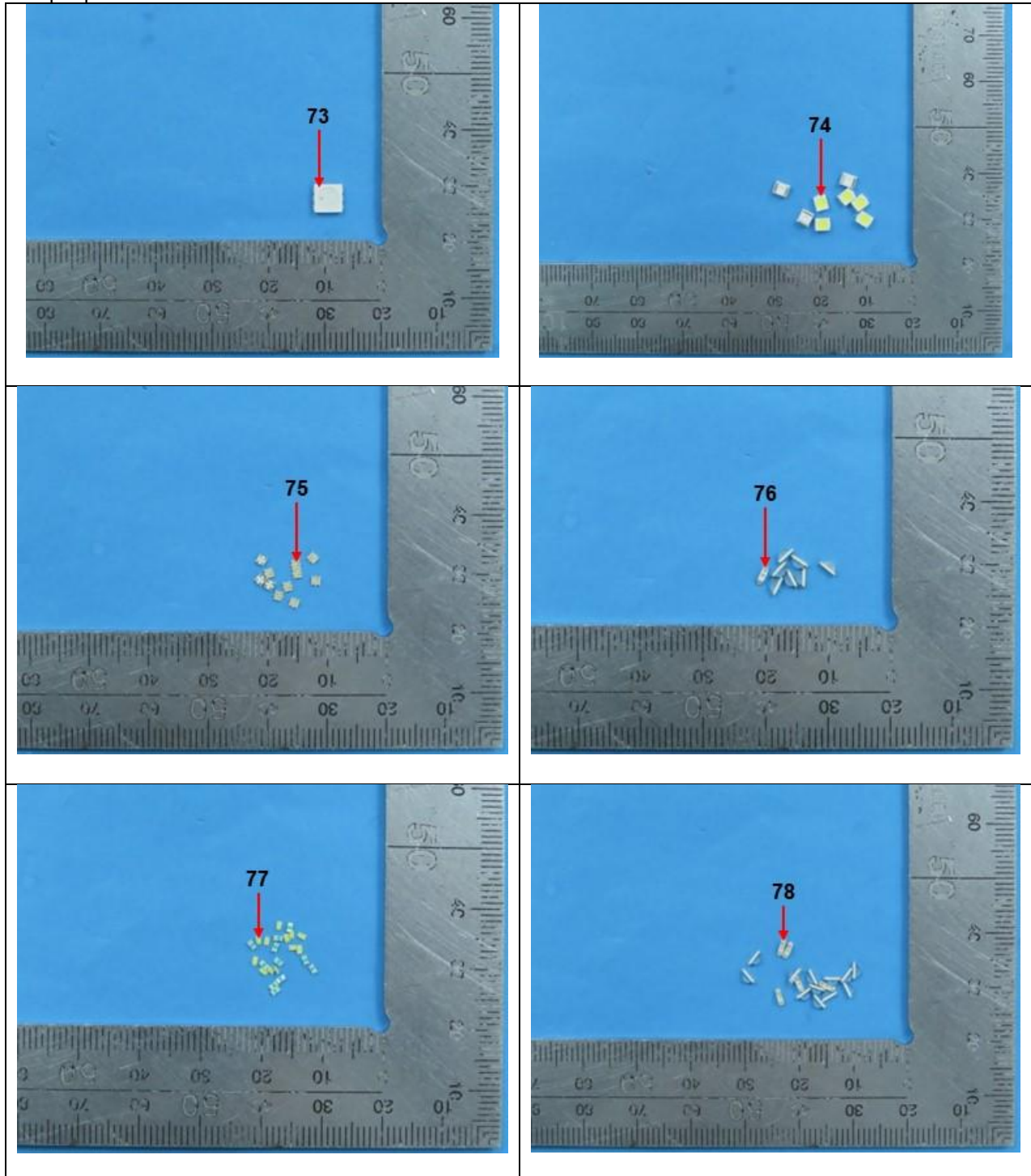
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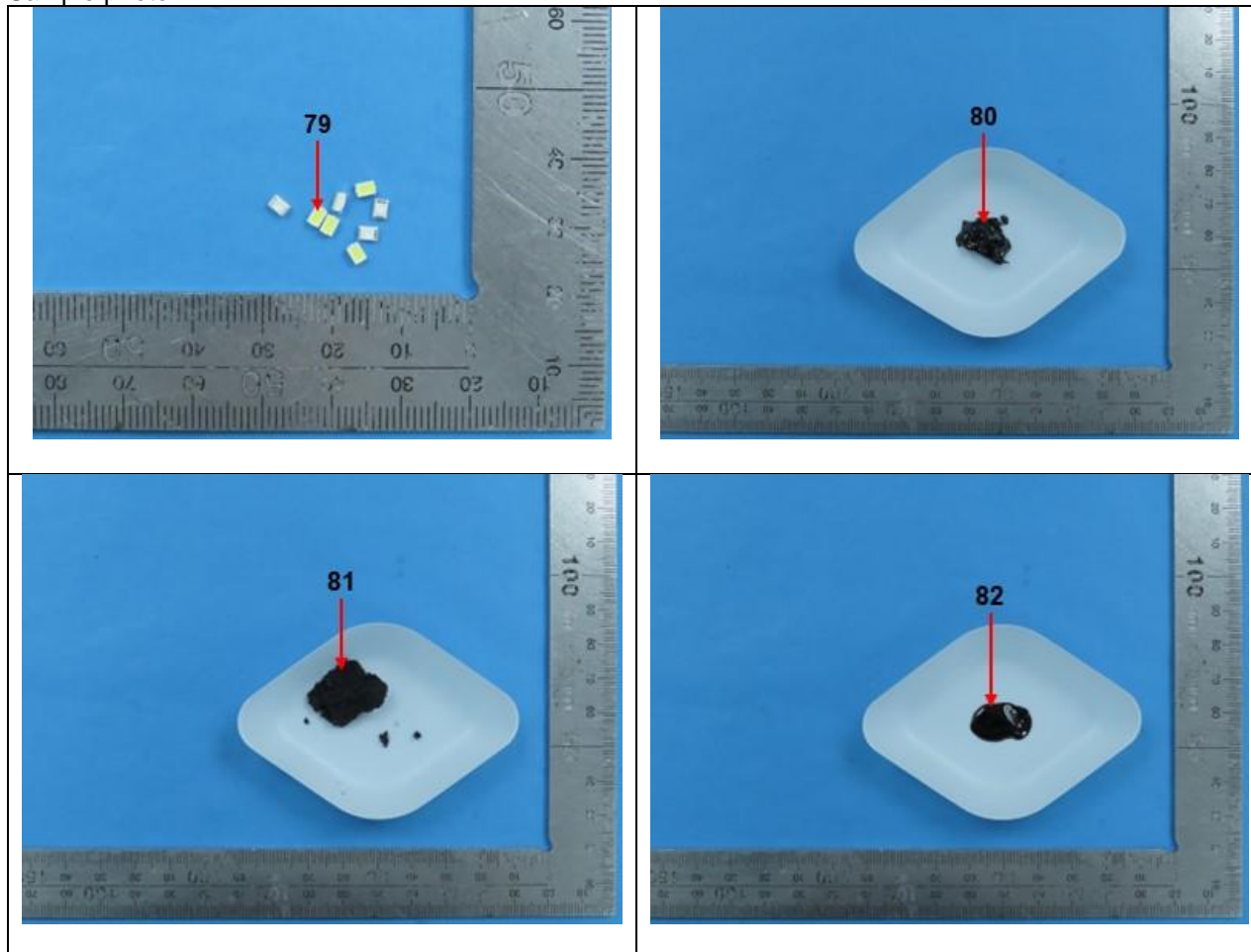
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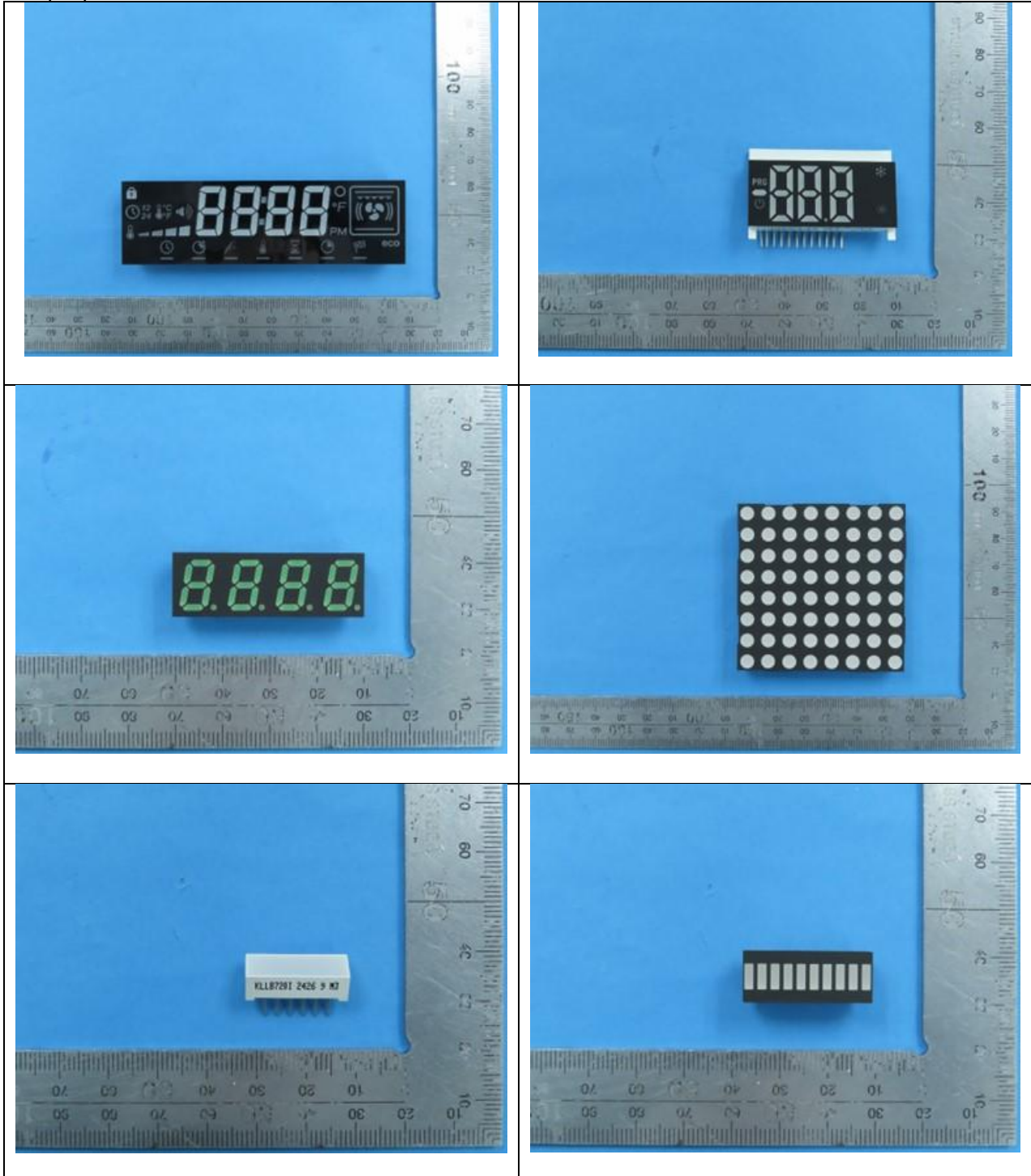
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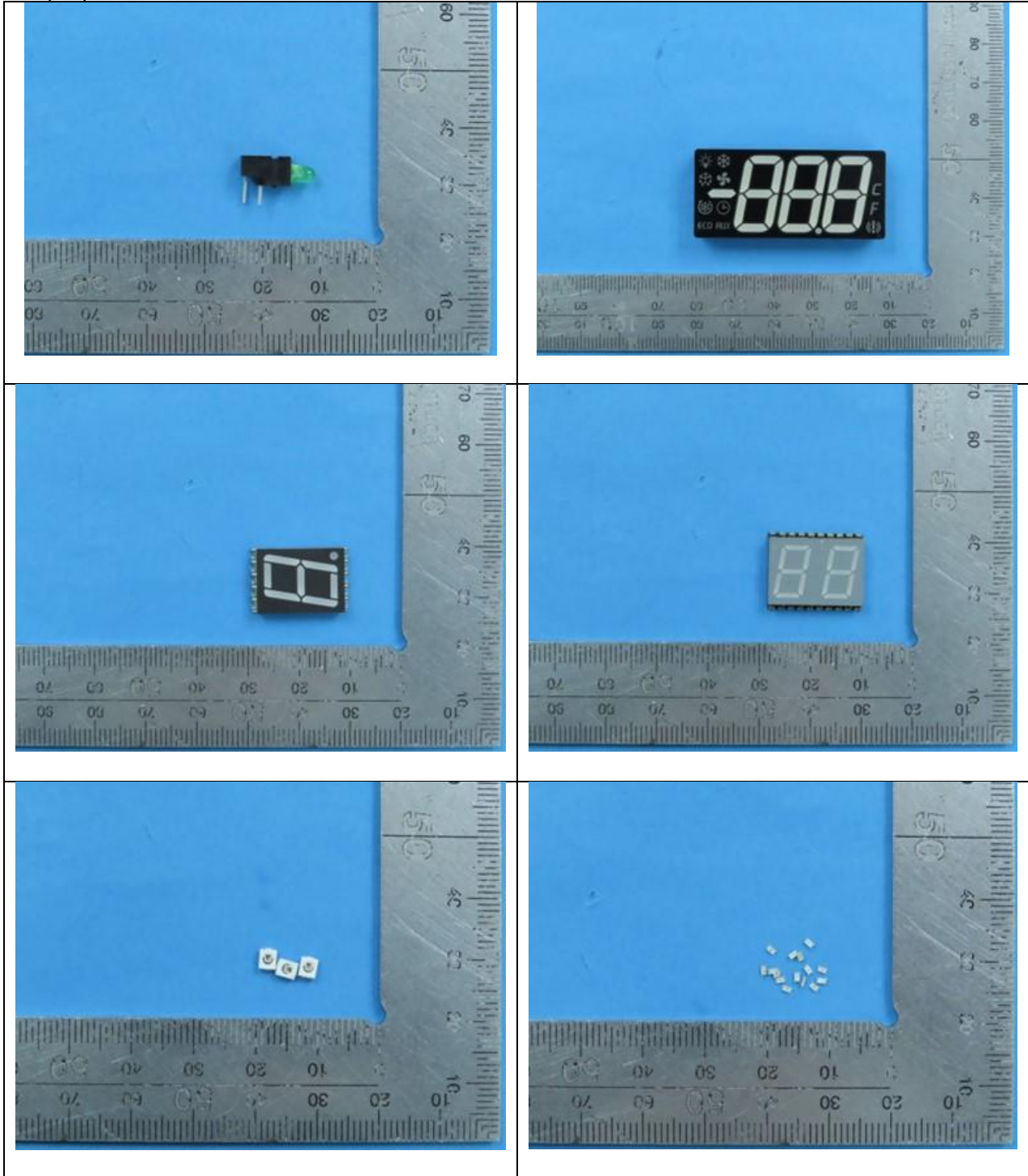
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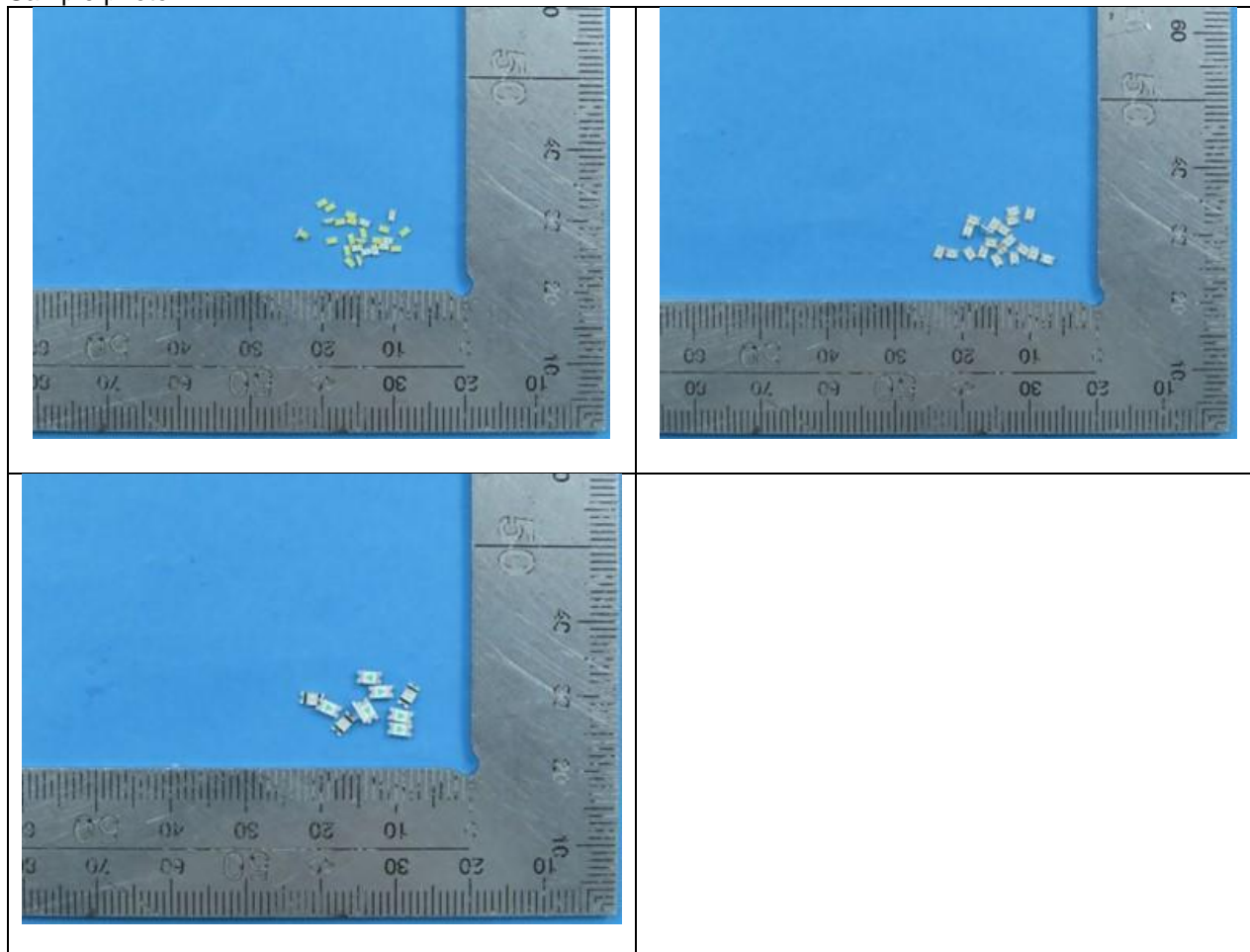
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