Verification Report

No.: CANEC24007336701 **Date:** Jun 03, 2024

Client Name: FUJIAN DEHUA XINCHENG ELECTRIC.,LTD

Client Address: 2/F., OLD BAOMEI FACTORY, HUANCHENG RD., DEHUA, FUJIAN, CHINA

Sample Name:	Light
Tested Basic Model No.:	XQL-2AAA-1，XQL-2AAA-2，XQL-2AAA-3，XQL-2AAA-4，XQL-2AAA-5，XQL-2AAA-6，XQL-2AAA-7，XQL-2AAA-8，XQL-2AAA-9，XQL-2AAA-10，XQL-2AAA-11，XQL-2AAA-12，XQL-2AAA-13，XQL-3AAA-1，XQL-3AAA-2，XQL-3AAA-3，XQL-3AAA-4，XQL-3AAA-5
Client Ref. Information:	XQL-2AAA-14，XQL-2AAA-15

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

SGS Job No.:	XMP24-001391
Sample Receiving Date:	Apr 15, 2024
Verification Period:	Apr 15, 2024 ~ Jun 03, 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 (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jenny Liao
Approved Signatory

scan to see the report
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Verification Method(s):

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.

(2) Wet chemical test method: With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-12:2023, IEC 62321-6:2015 and IEC62321-8:2017 , analyzed by ICP-OES,UV-Vis and GC-MS.

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Verification Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN24-0073367-0001.C001	XQL-2AAA-1- White plastic shell
SN2	A2	CAN24-0073367-0001.C002	XQL-2AAA-1- Yellow plastic (wire insulation)
SN3	A3	CAN24-0073367-0001.C003	XQL-2AAA-1- White plastic (wire insulation)
SN4	A4	CAN24-0073367-0001.C004	XQL-2AAA-1- Black plastic (heat shrinkable tube) with white printing
SN5	A5	CAN24-0073367-0001.C005	XQL-2AAA-1- Translucent body (LED)
SN6	A6	CAN24-0073367-0001.C006	XQL-2AAA-1- Silvery metal solder
SN7	A7	CAN24-0073367-0001.C007	XQL-2AAA-1- Silvery body
SN8	A8	CAN24-0073367-0001.C008	XQL-2AAA-1- White "PCB"
SN9	A9	CAN24-0073367-0001.C009	XQL-2AAA-1- Silvery metal solder
SN10	A10	CAN24-0073367-0001.C010	XQL-2AAA-1- Black plastic part
SN11	A11	CAN24-0073367-0001.C011	XQL-2AAA-2- White "PCB"
SN12	A12	CAN24-0073367-0001.C012	XQL-2AAA-2- Silvery metal solder
SN13	A13	CAN24-0073367-0001.C013	XQL-2AAA-3- Transparent plastic (wire insulation)
SN14	A14	CAN24-0073367-0001.C014	XQL-2AAA-3- White plastic shell
SN15	A15	CAN24-0073367-0001.C015	XQL-2AAA-3- Yellow plastic cover
SN16	A16#	CAN24-0073367-0001.C016.C003	XQL-2AAA-3- Blue plastic (wire insulation)
SN17	A17	CAN24-0073367-0001.C017.C001	XQL-2AAA-3- Blue plastic (wire insulation)
SN18	A18	CAN24-0073367-0001.C018	XQL-2AAA-3- White plastic (wire insulation)
SN19	A19	CAN24-0073367-0001.C019	XQL-2AAA-3- Silvery metal solder
SN20	A20	CAN24-0073367-0001.C020	XQL-2AAA-3- White "PCB"
SN21	A21	CAN24-0073367-0001.C021	XQL-2AAA-4- Silvery metal solder
SN22	A22	CAN24-0073367-0001.C022	XQL-2AAA-4- White "PCB"
SN23	A23	CAN24-0073367-0001.C023	XQL-2AAA-5- Silvery metal solder
SN24	A24	CAN24-0073367-0001.C024	XQL-2AAA-5- White "PCB"
SN25	A25	CAN24-0073367-0001.C025	XQL-2AAA-6- Black plastic button
SN26	A26	CAN24-0073367-0001.C026	XQL-2AAA-6- Transparent plastic (wire insulation)
SN27	A27	CAN24-0073367-0001.C027	XQL-2AAA-7- Silvery enamel-insulated wire
SN28	A28	CAN24-0073367-0001.C028	XQL-2AAA-7- Transparent body (LED) with yellow printing
SN29	A29	CAN24-0073367-0001.C029	XQL-2AAA-8- Transparent body (LED)
SN30	A30	CAN24-0073367-0001.C030	XQL-2AAA-8- Silvery metal screw
SN31	A31	CAN24-0073367-0001.C031	XQL-2AAA-9- Transparent body (LED)
SN32	A32	CAN24-0073367-0001.C032	XQL-2AAA-10- White "PCB"
SN33	A33	CAN24-0073367-0001.C033	XQL-2AAA-10- Silvery metal solder
SN34	A34	CAN24-0073367-0001.C034	XQL-2AAA-11- White plastic (heat shrinkable tube) with black printing
SN35	A35	CAN24-0073367-0001.C035	XQL-2AAA-12- White plastic shell
SN36	A36	CAN24-0073367-0001.C036	XQL-2AAA-13- White plastic shell
SN37	A37	CAN24-0073367-0001.C037	XQL-2AAA-13- White "PCB"

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SN ID	Sample No.	SGS Sample ID	Description
SN38	A38	CAN24-0073367-0001.C038	XQL-2AAA-13- Silvery metal solder
SN39	A39	CAN24-0073367-0001.C039	XQL-3AAA-1- Black plastic (wire insulation)
SN40	A40	CAN24-0073367-0001.C040	XQL-3AAA-1- Yellow plastic (wire insulation)
SN41	A41	CAN24-0073367-0001.C041	XQL-3AAA-1- Silvery metal solder
SN42	A42	CAN24-0073367-0001.C042	XQL-3AAA-1- Green "PCB"
SN43	A43	CAN24-0073367-0001.C043	XQL-3AAA-2- Beige plastic shell
SN44	A44	CAN24-0073367-0001.C044.C001	XQL-3AAA-3- Red plastic (wire insulation)
SN45	A45	CAN24-0073367-0001.C045	XQL-3AAA-3- Brown/green "PCB"
SN46	A46	CAN24-0073367-0001.C046.C001	XQL-3AAA-3- Silvery metal wire (solder)
SN47	A47	CAN24-0073367-0001.C047	XQL-3AAA-4- Silvery metal solder
SN48	A48	CAN24-0073367-0001.C048	XQL-3AAA-4- White "PCB"
SN49	A49	CAN24-0073367-0001.C049	XQL-3AAA-5- Silvery metal solder
SN50	A50	CAN24-0073367-0001.C050	XQL-3AAA-5- White "PCB"

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Verification Result(s):

Unless otherwise specified, the unit is mg/kg.

Test Item(s)	A1	A2	A3	A4	A5	A6	A7	A8
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	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
PBB	BL	BL	BL	BL	BL	---	BL	BL
PBDE	BL	BL	BL	BL	BL	---	BL	BL
DBP	BL	ND	ND	ND	BL	---	BL	BL
BBP	BL	ND	ND	ND	BL	---	BL	BL
DEHP	BL	ND	ND	ND	BL	---	BL	BL
DIBP	BL	ND	ND	ND	BL	---	BL	BL

Test Item(s)	A9	A10	A11	A12	A13	A14	A15	A16#
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	317	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
PBB	---	BL	BL	---	BL	BL	BL	BL
PBDE	---	BL	BL	---	BL	BL	BL	BL
DBP	---	BL	BL	---	ND	BL	BL	839
BBP	---	BL	BL	---	ND	BL	BL	ND
DEHP	---	BL	BL	---	ND	BL	BL	800
DIBP	---	BL	BL	---	ND	BL	BL	ND

Test Item(s)	A17	A18	A19	A20	A21	A22	A23	A24
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	315	BL	291	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBB	BL	BL	---	BL	---	BL	---	BL
PBDE	BL	BL	---	BL	---	BL	---	BL
DBP	839	ND	---	BL	---	BL	---	BL
BBP	ND	ND	---	BL	---	BL	---	BL
DEHP	800	ND	---	BL	---	BL	---	BL
DIBP	ND	ND	---	BL	---	BL	---	BL

Test Item(s)	A25	A26	A27	A28	A29	A30	A31	A32
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	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
PBB	BL	BL	BL	BL	BL	---	ND	BL
PBDE	BL	BL	BL	BL	BL	---	ND	BL
DBP	ND	ND	BL	BL	BL	---	ND	BL
BBP	ND	ND	BL	BL	BL	---	ND	BL

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Test Item(s)	A25	A26	A27	A28	A29	A30	A31	A32
DEHP	ND	ND	BL	BL	BL	---	ND	BL
DIBP	ND	ND	BL	BL	BL	---	ND	BL

Test Item(s)	A33	A34	A35	A36	A37	A38	A39	A40
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	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
PBB	---	BL	BL	BL	BL	---	BL	BL
PBDE	---	BL	BL	BL	BL	---	BL	BL
DBP	---	ND	BL	BL	BL	---	ND	796
BBP	---	ND	BL	BL	BL	---	ND	ND
DEHP	---	ND	BL	BL	BL	---	ND	ND
DIBP	---	ND	BL	BL	BL	---	ND	ND

Test Item(s)	A41	A42	A43	A44	A45	A46	A47	A48
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	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
PBB	---	BL	BL	BL	BL	---	---	BL
PBDE	---	BL	BL	BL	BL	---	---	BL
DBP	---	BL	BL	ND	BL	---	---	BL
BBP	---	BL	BL	ND	BL	---	---	BL
DEHP	---	BL	BL	367	BL	---	---	BL
DIBP	---	BL	BL	ND	BL	---	---	BL

Test Item(s)	A49	A50
Cd	BL	BL
Pb	BL	BL
Hg	BL	BL
Cr(VI)▼	BL	BL
PBB	---	BL
PBDE	---	BL
DBP	---	BL
BBP	---	BL
DEHP	---	BL
DIBP	---	BL

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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≤(70-3σ)<X<(130+3σ)≤OL	BL≤(70-3σ)<X<(130+3σ)≤OL	LOD<X<(150+3σ)≤OL
Pb	BL≤(700-3σ)<X<(1300+3σ)≤OL	BL≤(700-3σ)<X<(1300+3σ)≤OL	BL≤(500-3σ)<X<(1500+3σ)≤OL
Hg	BL≤(700-3σ)<X<(1300+3σ)≤OL	BL≤(700-3σ)<X<(1300+3σ)≤OL	BL≤(500-3σ)<X<(1500+3σ)≤OL
Br	BL ≤ (300-3σ)< X	Not applicable	BL ≤ (250-3σ)< X
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< 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 Cr 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 PBB/PBDE) 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 ≤ 600< X
Butyl benzyl phthalate (BBP)	85-68-7	BL ≤ 600< X
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	BL ≤ 600< X
Diisobutyl phthalate (DIBP)	84-69-5	BL ≤ 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 PBB and PBDE 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 0.10 μg/cm^2.

(c) ▼ =Metal sample

a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 μg/cm^2. 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 0.10 μg/cm^2). The coating is considered a non-Cr(VI) based coating

c. The result between 0.10 μg/cm^2 and 0.13 μg/cm^2 is considered to be inconclusive-unavoidable coating variations may influence the determination

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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)/PBB/PBDE/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.

(6) Only selected parts in sample photos were tested and drew the conclusion.

(7) These tests of No.A46 were subcontracted to SGS Xiamen chemical lab.

(8) #=According to the declaration from applicant, the materials of No.A17 are the same as those in No.A16, and its results for support the results of No.A16. The applicant will take the responsibility of all discrepancy and risk.

The location of performance of the laboratory activities: A. No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong; B. Room 101, Building 3, No.1501, Kaichuang Avenue, Huangpu District, Guangzhou, Guangdong
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.

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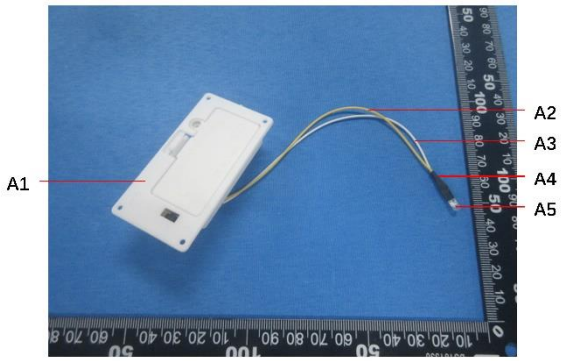

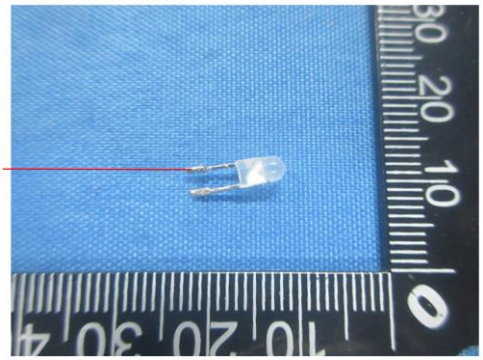

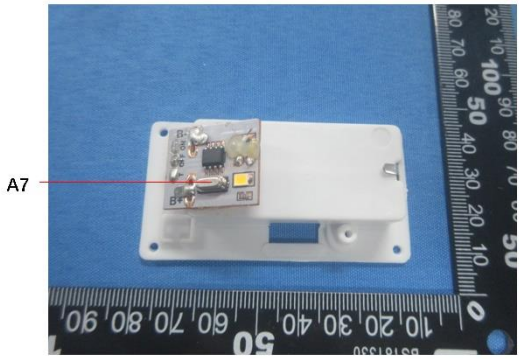

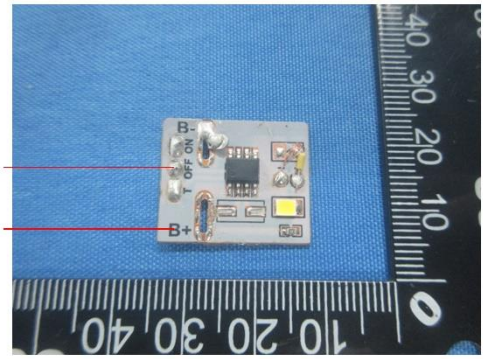

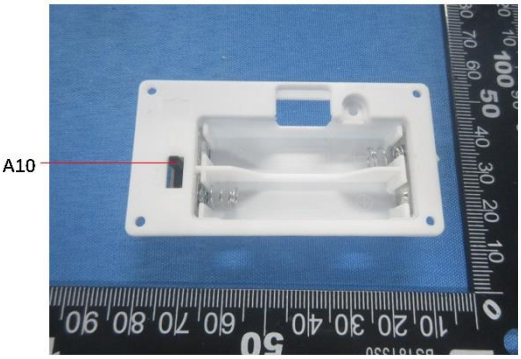

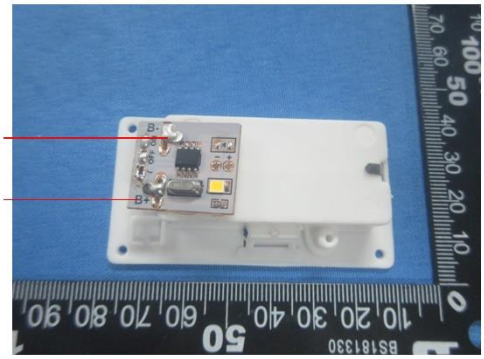

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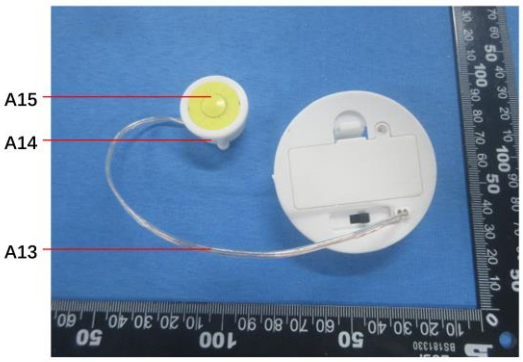

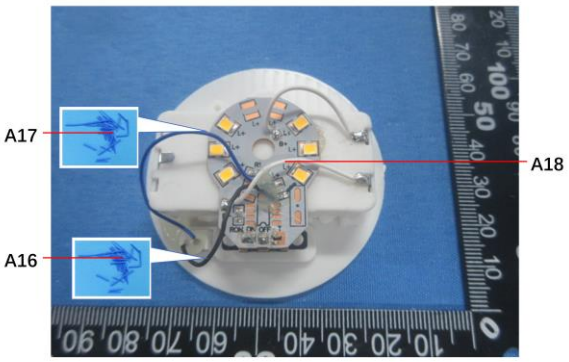

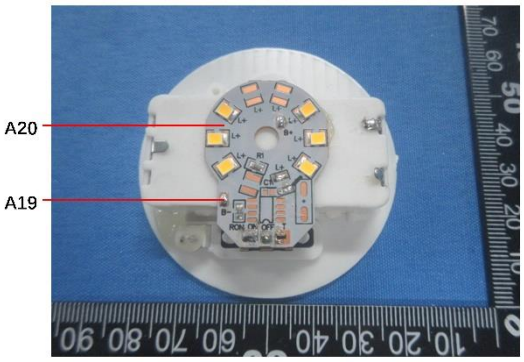

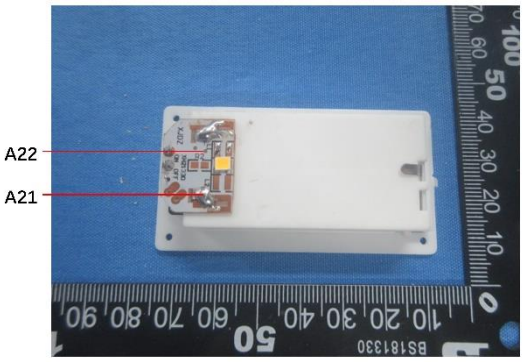

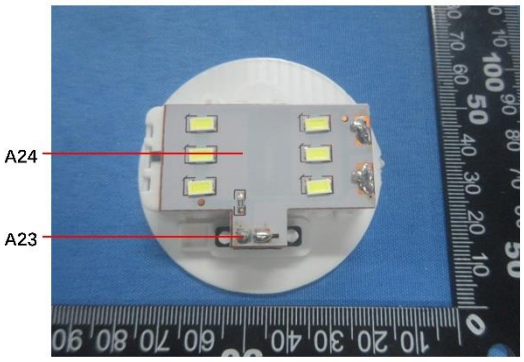

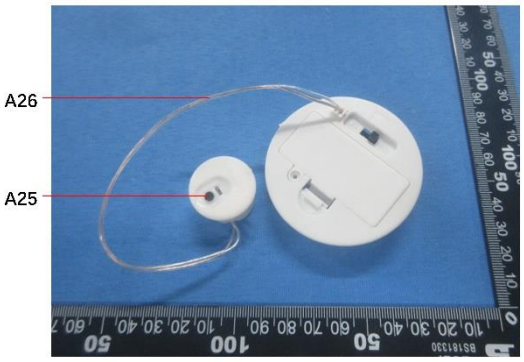

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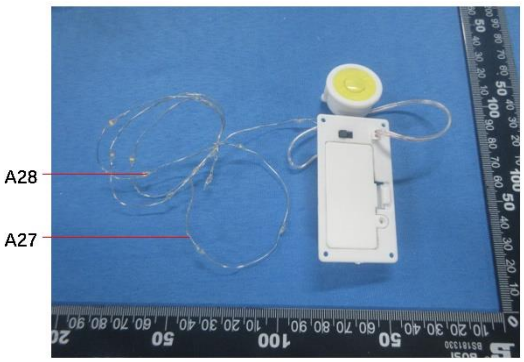

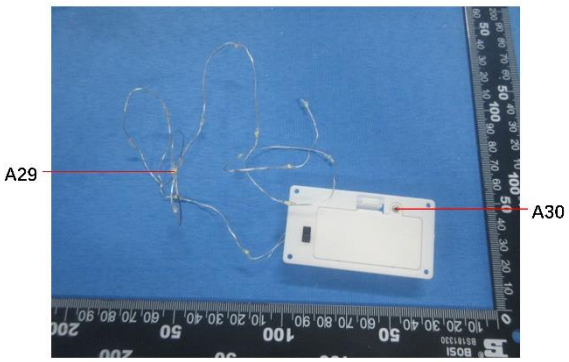

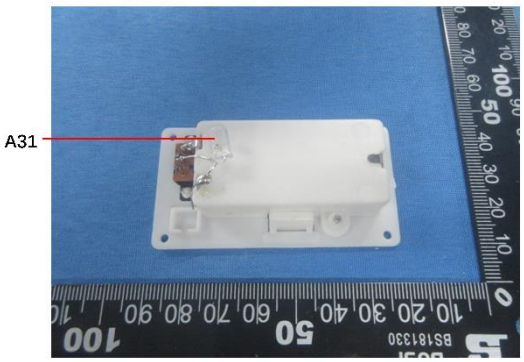

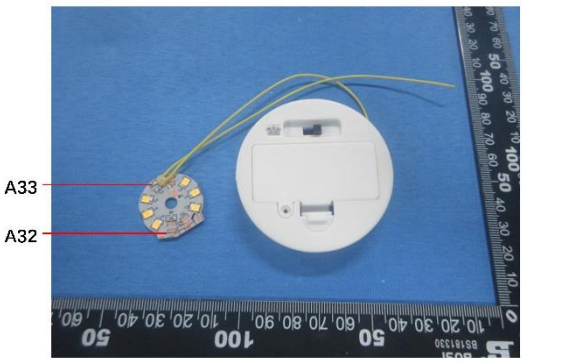

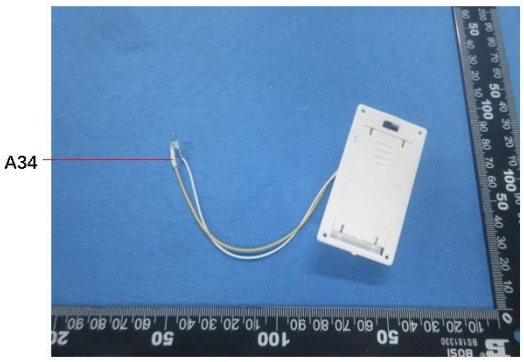

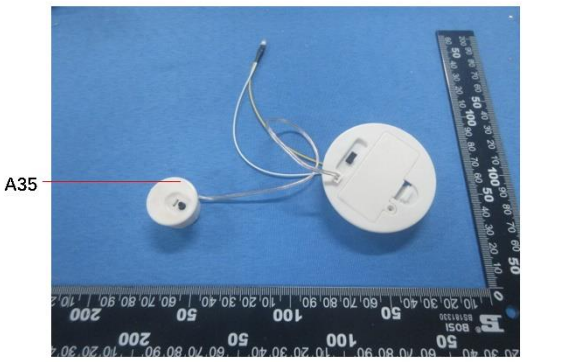

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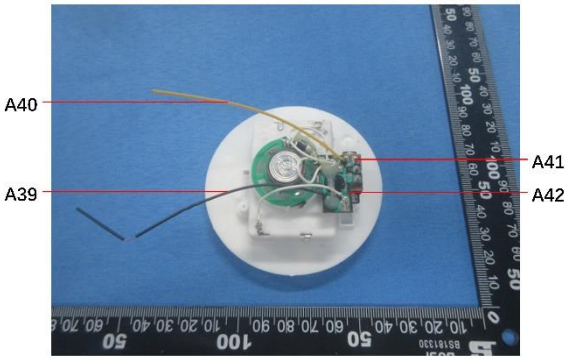

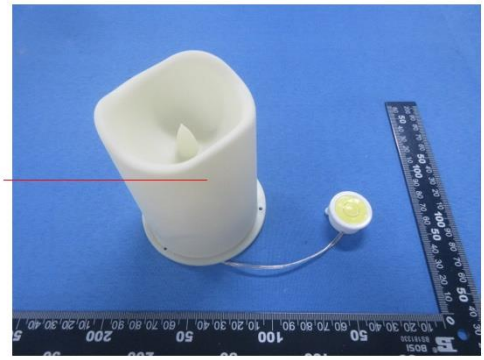

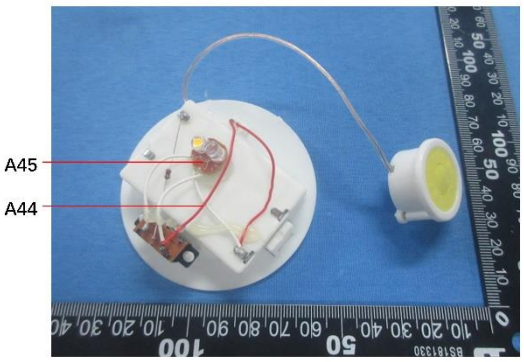

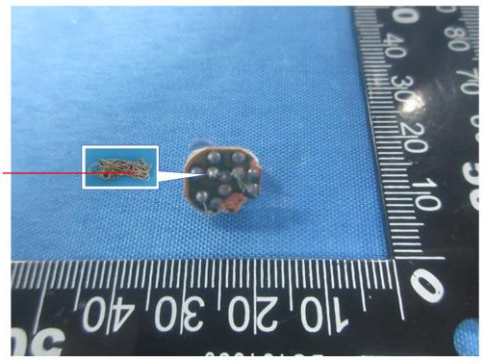

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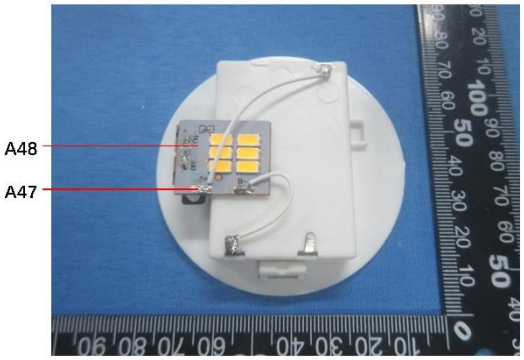	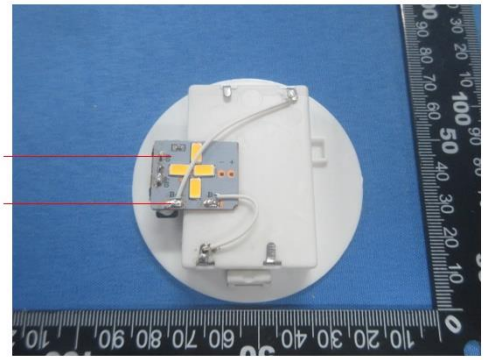

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