



Verification Report

No. SZXEC2202887801

Date: 07 Sep 2022

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Client Name : BEST TECHNOLOGY CO.,LIMITED.

Client Address : 9E, JINDACHENG BUILDING, CENTER RD., SHAJING TOWN, BAO'AN DISTRICT, SHENZHEN,
518104, CHINA

Sample Name : Circuit
Tested Basic Model No. (P.O. No.): 10915_B, 10919_E

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

SGS Job No. : RP22-022593 - SZ
Date of Sample Received : 24 Aug 2022
Verification Period : 24 Aug 2022 - 06 Sep 2022
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

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

Andy

Andy Ni
Approved Signatory

scan to see the report



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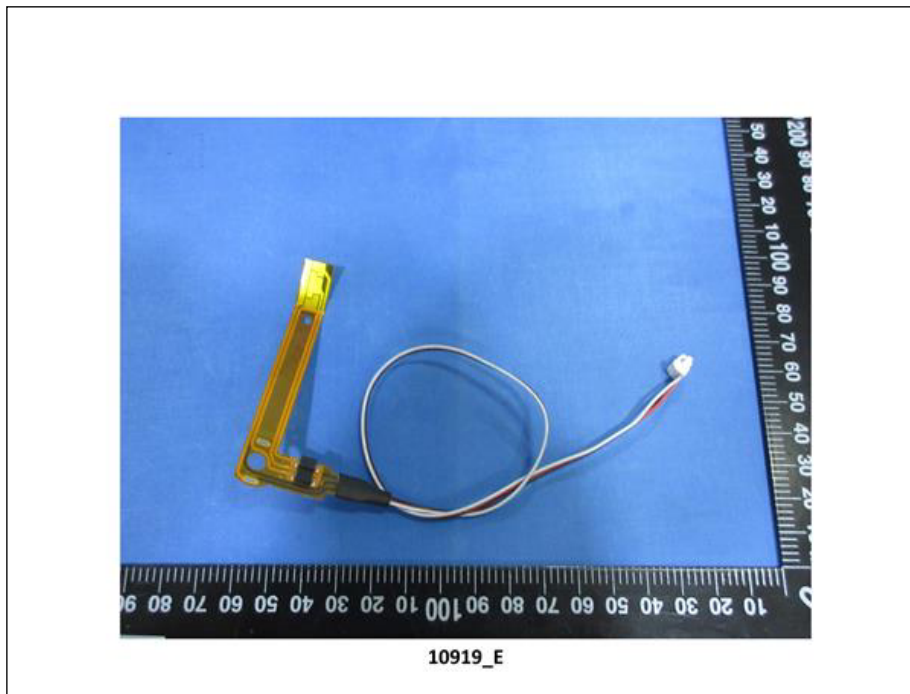
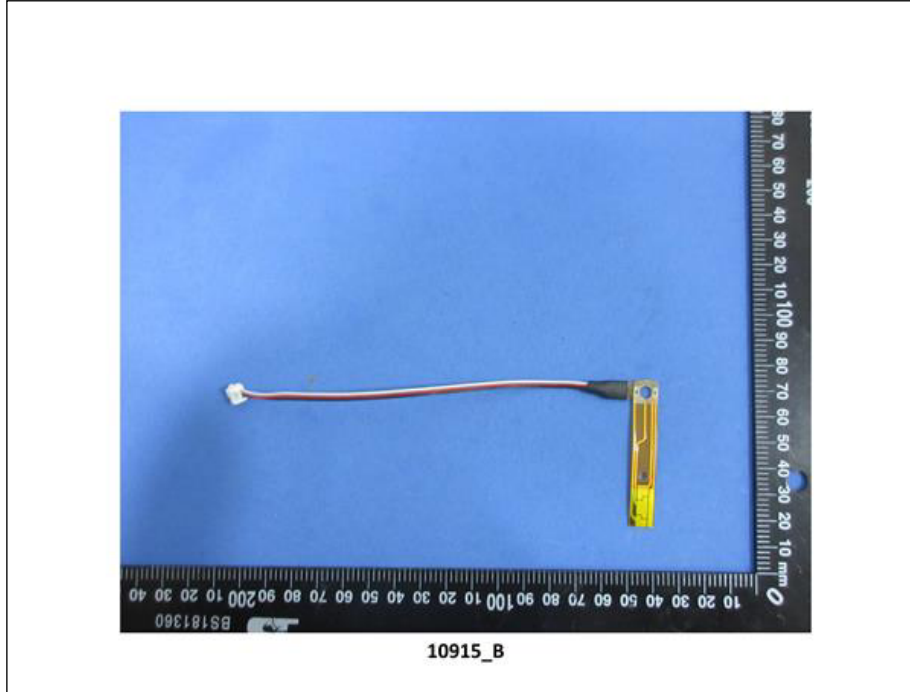
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Photo of Submitted Sample



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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, ISO 17075-1:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Verification Part Description :

SN ID	Sample No	SGS Sample ID	Description
SN1	A1	SZX22-028878.001	10915_B - Brown "FPC"
SN2	A2	SZX22-028878.002	10915_B - Black plastic heat shrinkable tube
SN3	A3	SZX22-028878.003	10915_B - Translucent plastic sheet with adhesive glue
SN4	A4	SZX22-028878.004	10915_B - Silvery metal solder
SN5	A5	SZX22-028878.005	10915_B - White plastic part
SN6	A6	SZX22-028878.006	10915_B - Red plastic (wire insulation)
SN7	A7	SZX22-028878.007	10915_B - Black plastic (wire insulation)
SN8	A8	SZX22-028878.008	10915_B - White plastic (wire insulation)
SN9	A9	SZX22-028878.009	10915_B - Silvery metal core wire
SN10	A10	SZX22-028878.010	10915_B - Silvery metal pin
SN11	A11	SZX22-028878.011	10919_E - Brown "FPC"
SN12	A12	SZX22-028878.012	10919_E - Black plastic heat shrinkable tube
SN13	A13	SZX22-028878.013	10919_E - Black diode body
SN14	A14	SZX22-028878.014	10919_E - Silvery metal solder
SN15	A15	SZX22-028878.015	10919_E - White plastic part
SN16	A16	SZX22-028878.016	10919_E - Black plastic (wire insulation)
SN17	A17	SZX22-028878.017	10919_E - Red plastic (wire insulation)
SN18	A18	SZX22-028878.018	10919_E - White plastic (wire insulation)
SN19	A19	SZX22-028878.019	10919_E - Silvery metal core wire
SN20	A20	SZX22-028878.020	10919_E - Silvery metal pin



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Verification Results :

Unless otherwise specified, the unit is mg/kg

Test Item(s)	A1	A2	A3	A4	A5	A6	A7	A8
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	---	ND	BL	BL	BL
PBDEs	BL	ND	ND	---	ND	BL	BL	BL
DBP	ND	ND	<600*	---	ND	ND	ND	ND
BBP	ND	ND	<600*	---	ND	ND	ND	ND
DEHP	ND	ND	<600*	---	ND	ND	ND	ND
DIBP	ND	ND	<600*	---	ND	ND	ND	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A9	A10	A11	A12	A13	A14	A15	A16
Pb	BL	BL	BL	BL	OL▲	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	BL	---	ND	BL
PBDEs	---	---	BL	ND	BL	---	ND	BL
DBP	---	---	ND	ND	ND	---	ND	ND
BBP	---	---	ND	ND	ND	---	ND	ND
DEHP	---	---	ND	ND	ND	---	ND	ND
DIBP	---	---	ND	ND	ND	---	ND	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A17	A18	A19	A20
Pb	BL	BL	BL	BL
Cd	BL	BL	BL	BL
Hg	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL
PBBs	BL	BL	---	---



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Test Item(s)	A17	A18	A19	A20
PBDEs	BL	BL	---	---
DBP	ND	531	---	---
BBP	ND	ND	---	---
DEHP	ND	ND	---	---
DIBP	ND	ND	---	---
Conclusion	PASS	PASS	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.



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(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/cm².

(c) ▼ =Metal sample

a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13µg/cm².

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/cm²).

The coating is considered a non-Cr(VI) based coating

c. The result between 0.10µg/cm² and 0.13µg/cm² 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.

(6) * = Considering insufficient sample amount, the Method Detection Limit (MDL) is raised appropriately.

(7) ▲ = According to the declaration from the client, Lead (Pb) in No.A13 is exempted by EU RoHS directive 2011/65/EU based on [ANNEX III 7(a)]: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).

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.

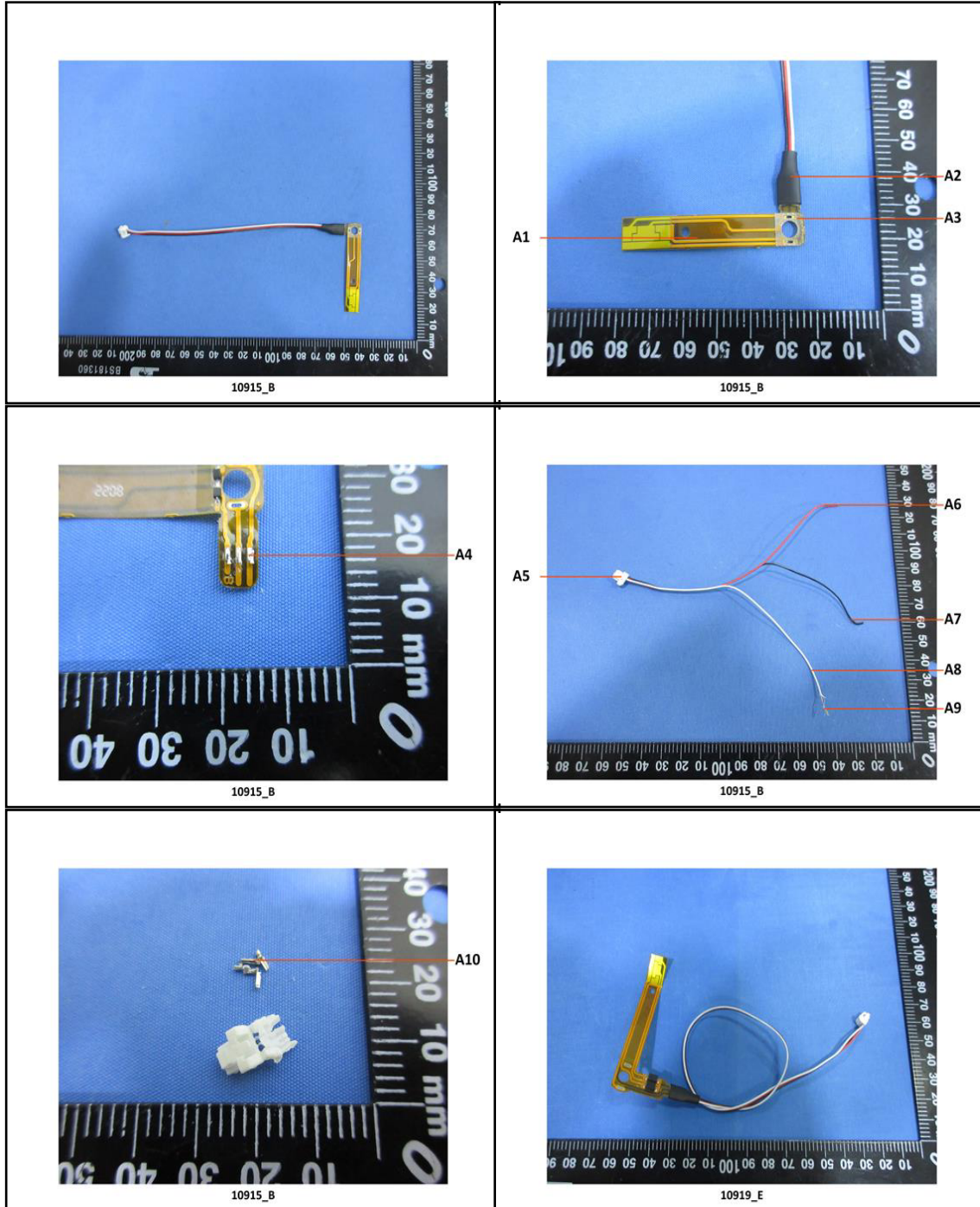


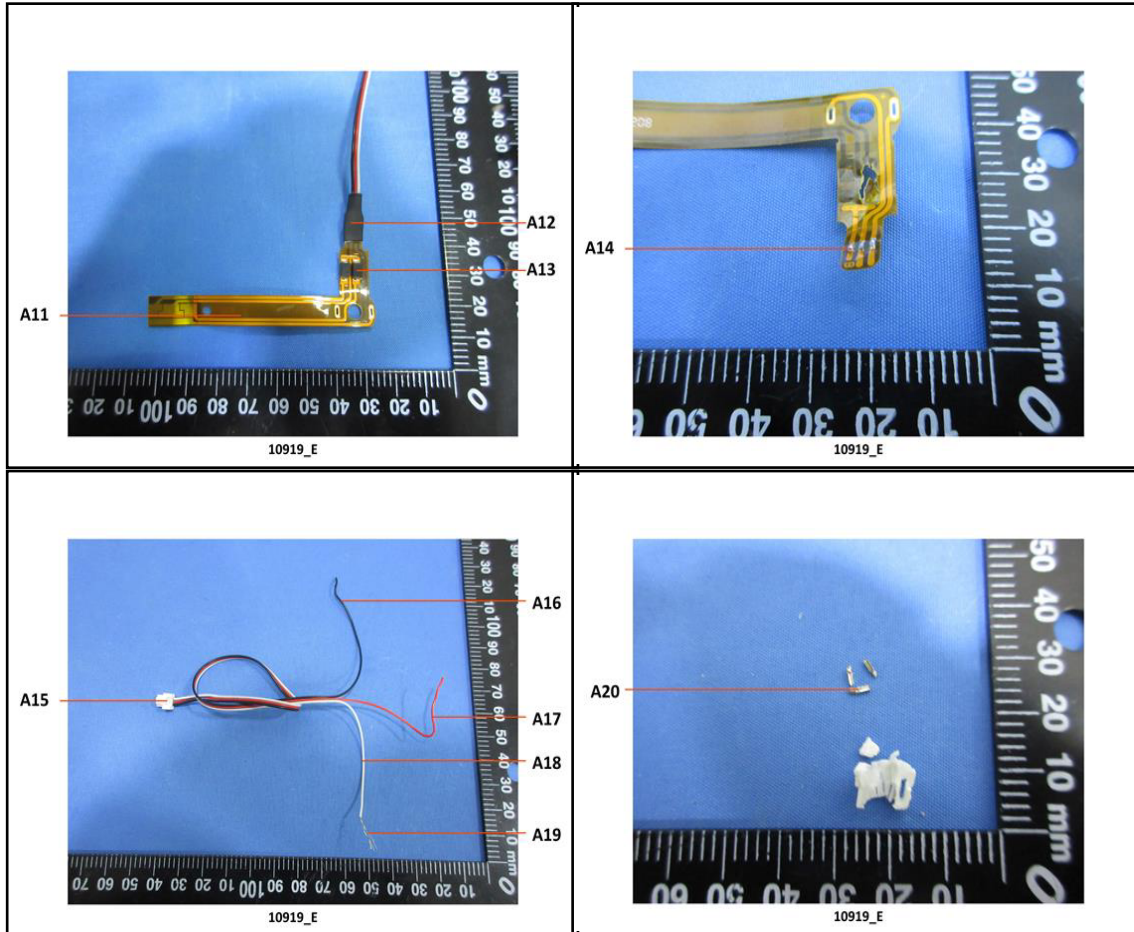
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Sample photo:





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