Verification Report

No.: TAOEC24008368701 **Date:** Nov 18, 2024

Client Name: Jiaxing Banchen Technology Co., Ltd

Client Address: 4/F，Building 2,No.8,Guangjin Road ,Guangchen Town,Pinghu City, Zhejiang Province

Sample Name: LI-ION Battery

Model No.: 12V3000mAh

Client Ref. Information: Please see attachment

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

SGS Job No.: SUP24-003422

Sample Receiving Date: Nov 01, 2024

Verification Period: Nov 01, 2024 ~ Nov 15, 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 (Qingdao) Co., Ltd.

Alice Sun

Alice Sun
Approved Signatory

scan to see the report
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Photo of Submitted Sample



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	TAO24-0083687-0001.C001	Golden metal
SN2	A2	TAO24-0083687-0001.C002	Silvery plastic(label)
SN3	A3	TAO24-0083687-0001.C003	Black plastic
SN4	A4	TAO24-0083687-0001.C004	Red plastic
SN5	A5	TAO24-0083687-0001.C005	Transparent adhesive
SN6	A6	TAO24-0083687-0001.C006	Red plastic(jacket)
SN7	A7	TAO24-0083687-0001.C007	Black plastic(jacket)
SN8	A8	TAO24-0083687-0001.C008	Copper-colored metal
SN9	A9	TAO24-0083687-0001.C009	Brown adhesive
SN10	A10	TAO24-0083687-0001.C010	White fabric
SN11	A11	TAO24-0083687-0001.C011	Silvery metal(inner core)
SN12	A12	TAO24-0083687-0001.C012	White double-faced adhesive
SN13	A13	TAO24-0083687-0001.C013	Black foam
SN14	A14	TAO24-0083687-0001.C014	Silvery metal(matrix)
SN15	A15	TAO24-0083687-0001.C015	Blue coating
SN16	A16	TAO24-0083687-0001.C016	Silvery metal
SN17	A17	TAO24-0083687-0001.C017	Black body
SN18	A18	TAO24-0083687-0001.C018	Black plastic(jacket)
SN19	A19	TAO24-0083687-0001.C019	Black solid
SN20	A20	TAO24-0083687-0001.C020	Black body
SN21	A21	TAO24-0083687-0001.C021	Black body
SN22	A22	TAO24-0083687-0001.C022	Silvery metal(soldering tin)
SN23	A23	TAO24-0083687-0001.C023	Green PCB
SN24	A24	TAO24-0083687-0001.C024	White plastic

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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
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	ND	BL	BL	BL	BL	BL	BL	BL
PBB	---	BL	BL	BL	BL	BL	BL	---
PBDE	---	BL	BL	BL	BL	BL	BL	---
DEHP	---	BL	BL	BL	BL	BL	BL	---
BBP	---	BL	BL	BL	BL	BL	BL	---
DBP	---	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)	A9	A10	A11	A12	A13	A14	A15	A16
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	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	---
DEHP	BL	BL	---	BL	BL	---	BL	---
BBP	BL	BL	---	BL	BL	---	BL	---
DBP	BL	BL	---	BL	BL	---	BL	---
DIBP	BL	BL	---	BL	BL	---	BL	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A17	A18	A19	A20	A21	A22	A23	A24
Pb	BL	BL	BL	BL	12700▲	1776▲	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	ND	BL	BL	BL	BL
PBB	BL	BL	BL	BL	BL	---	ND	ND
PBDE	BL	BL	BL	BL	BL	---	ND	ND
DEHP	BL	BL	BL	BL	BL	---	ND	ND
BBP	BL	BL	BL	BL	BL	---	ND	ND
DBP	BL	BL	BL	BL	BL	---	ND	ND
DIBP	BL	BL	BL	BL	BL	---	ND	ND
Conclusion	PASS	PASS	PASS	PASS	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	Polymers	Metals	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 elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

(2) Screening results of Phthalates (PHTH) below the limits are shown as "BL". Further chemical testing by GC-MS is to be performed if the results exceed limits.

Test Items	CAS No.
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7
Butyl benzyl phthalate (BBP)	85-68-7
Dibutyl phthalate (DBP)	84-74-2
Diisobutyl phthalate (DIBP)	84-69-5

(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	Hg	Cd	DEHP	BBP	DBP	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

Information on storage conditions and production date of the tested sample is unavailable and thus

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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/BBP/DBP/DIBP: 0.1%. The limit is quoted from RoHS Directive (EU) 2015/863.
(5) IEC 62321 series is equivalent to EN 62321 series.
(6) ▲According to the declaration from the client, Lead (Pb) in No.A22 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).
More information about exemption can be found via the following link:
https://rohs.sgsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20(EN).pdf
▲According to the declaration from the client, Lead (Pb) in No.A21 is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 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.
More information about exemption can be found via the following link:
https://rohs.sgsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20(EN).pdf

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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Attachment:
3.7V1200mAh,3.7V1500mAh,3.7V1800mAh,3.7V2000mAh,3.7V2400mAh,3.7V3000mAh,3.7V3600mAh,3.7V4000mAh,
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7.4V1200mAh,7.4V1500mAh,7.4V1800mAh,7.4V2000mAh,
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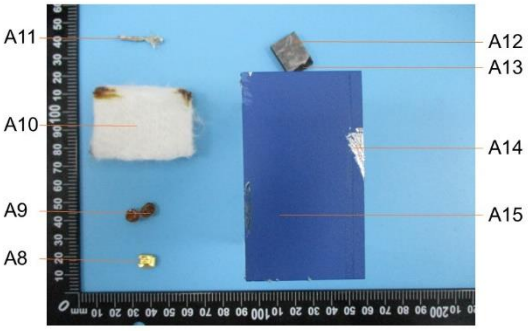
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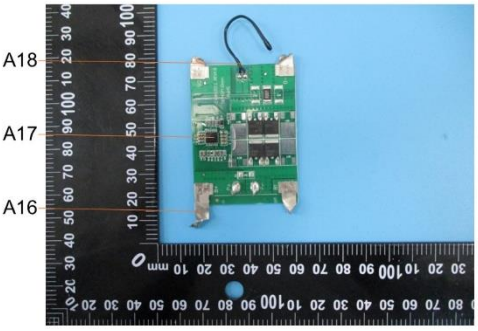
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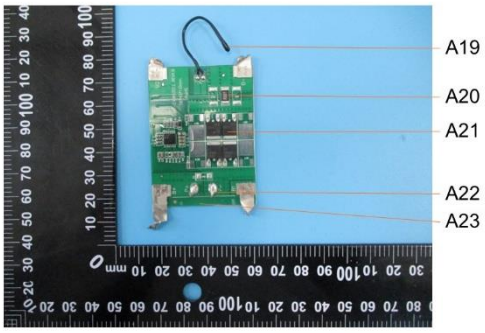
Sample photos:

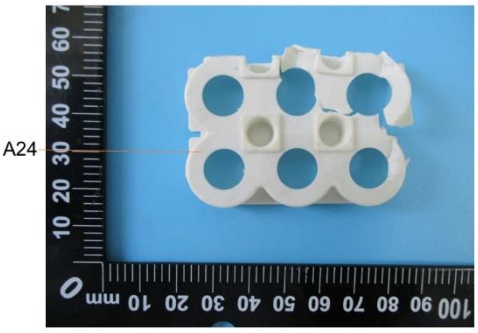












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