

Certification
Issued Under the Authority of the
Federal Communications Commission

By:

MiCOM Labs
575 Boulder Court
Pleasanton, CA 94566

Date of Grant: 05/27/2024

Application Dated: 05/27/2024

Shenzhen Vision Future Technology Co., Ltd.
3F, Building D, Jinchi Technology Park,
No. 3 Jiuwei 1st Road, Hangcheng St.,
Baoan Dist., Shenzhen,
China

Attention: Lemon feng

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER: 2BGI8-S10
Name of Grantee: Shenzhen Vision Future Technology Co., Ltd.
Equipment Class: Digital Transmission System
Notes: Locator

Grant Notes

FCC Rule Parts

15C

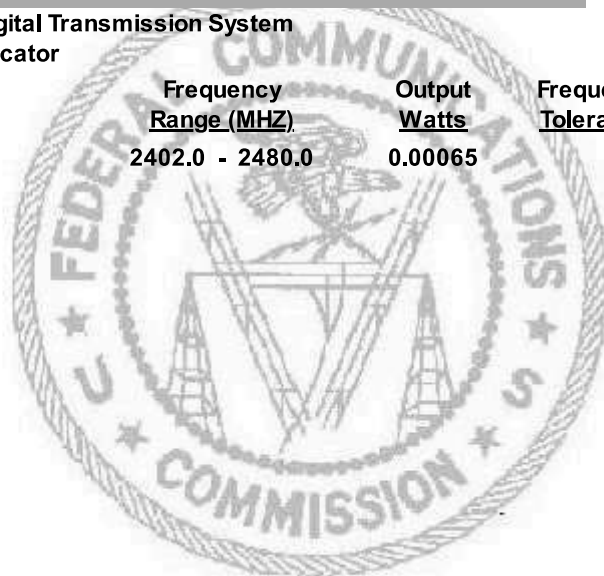
Frequency Range (MHZ)
2402.0 - 2480.0

Output Watts
0.00065

Frequency Tolerance

Emission Designator

Output power listed is conducted power.





CERTIFICATE *of* COMPLIANCE



[Certificate Validation](#)

CERTIFICATE OF COMPLIANCE

R210-233144 / 27 May 2024 / Rev A

for Radio Equipment in JAPAN

MiCOM Labs Inc. declares, on the basis of the assessment of the tests and the technical documentation provided by the applicant that the following product complies with the requirements of the above noted regulator.

Product Name:

Locator

Approval Holder Name:

Shenzhen Vision Future Technology Co., Ltd.




Gordon Hurst, Product Certifier

This Certificate is Issued under the Authority of:

MiCOM Labs Inc., 575 Boulder Court, Pleasanton, California 94566, USA

Registered Certification Body ID Number: 210



CERTIFICATE OF

R210-233144 / 27 May 2024 / Rev A

for Radio Equipment in JAPAN

Product Name:

Locator

Product Model Numbers: **S10,Wireless tag,S1,S6,S9,S11,S12,S13,S15,S16,S17,S18,S19,HB09,HB10,HB15,Smart Locator,Sualio tag,Locator,Wireless card,Wireless locator,mini card,mini card locator,wireless card locator**

Approval Holder: **Shenzhen Vision Future Technology Co., Ltd.**, 3F, Building D, Jinchi Technology Park, No. 3 Jiuwei 1st Road, Hangcheng St., Baoan Dist., Shenzhen, China

Test Lab: **Shenzhen HUAK Testing Technology Co., Ltd.**, 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Standards

Group

Article 2 paragraph 1 item (19)

Description of Apparatus

Company Name **Shenzhen Vision Future Technology Co., Ltd.**

Certification No. **R210-233144**

Issue Date / Rev **27 May 2024 / Rev A**

Equipment Description **Locator**

Hardware Version **V1**

Firmware Version **1.7.28**

Emission Information

Technology	Frequency Range		Emission Designator	RF Power		Field Strength		Antenna Power
	From	To		Max.	Type	dBuV/m	@Dist.	
Bluetooth LE	2402MHz	2480MHz	1M49F1D	1mW	Conducted	--	--	--

Antennas

Antenna Type	Manufacturer	Model/Part No.	Gain (dBi)	Frequency Range (MHz)
Ceramic Antenna	--	--	1.24	2400-2500

Technical Construction File Details: (Documents Reviewed)

Technical Report(s):

Article 2 paragraph 1 item (19):
HK2405102372-E

Supporting Documentation:

Service Agreement
Letter of Authorization
ISO 9001 Cert and/or Japan Product Quality
Japan Application
Japan Radio Protection Declaration
Antenna Specifications
Block Diagram
External Photographs (MIC Reported)
Internal Photographs (MIC Reported)
Label and its Location
Operational Description
PCB Layout
Schematics
Test Setup - Japan
User Manual

Type Marking

The validity of this Certificate is limited to products, which are equal to the one examined in the type - examination.

• When the manufacturer(or holder of this certificate) is placing the product on the Japanese market, the product must be affixed with the following Specified Radio Equipment marking:





EC-RED Certificate

CERTIFICATE NO.: SIT240506160201

Product : Locator

Model : S10, Wireless tag, S1, S2, S3, S4, S5, S6, S7, S8, S9, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, HB02, HB09, HB10, HB11, HB12, HB13, HB14, HB15, HB16, Smart Locator, Sualiotag, Sualio, EITag, TIKOTAG, TIKOTAG Pro, Locator, Wireless card, itemN locator, itemX locator, Wireless locator, Smart tag, mini card, mini card locator, wireless card locator

Trade Mark : N/A

Applicant : Shenzhen Vision Future Technology Co., Ltd.

Address : 3F, Building D, Jinch Technology Park, No. 3 Jiuwei 1st Road, Hangcheng St., Baoan Dist., Shenzhen

Manufacturer : Shenzhen Vision Future Technology Co., Ltd.

Address : 3F, Building D, Jinch Technology Park, No. 3 Jiuwei 1st Road, Hangcheng St., Baoan Dist., Shenzhen

The EUT described above has been tested by us with the listed standards and found in compliance with the council RED directive 2014/53/EU. It is possible to use CE marking to demonstrate the compliance with this Directive. The scope of evaluation relates to the submitted document only.

Essential requirement		Applied Specifications/Standards	Documentary Evidence	Result
Art3.1(a)	Health	EN 62479:2010 EN 50663:2017	SIT240506160201HR	Pass
Art3.1(a)	Safety	EN IEC 62368-1:2020+A11:2020	SIT240506160201SR	Pass
Art3.1(b)	EMC	ETSI EN 301489-1 V2.2.3 (2019-11) ETSI EN 301489-17 V3.2.4 (2020-09)	SIT240506160201ER-1	Pass
Art3.2	Radio	ETSI EN 300328 V2.2.2 (2019-07)	SIT240506160201ER-2	Pass



Authorized Signer:



Department Manager

Date: May 11, 2024

Shenzhen SIT Testing Technology Co., Ltd.

Email: info@sitcert.com

Tel: (86)-0755-29173399

Fax: (86)-0755-29179933

Http://www.sit-cert.com



Certificate of Conformity

Certificate No. : SIT240506160202S
Product : Locator
Model : S10, Wireless tag, S1, S2, S3, S4, S5, S6, S7, S8, S9, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, HB02, HB09, HB10, HB11, HB12, HB13, HB14, HB15, HB16, Smart Locator, Sualiotag, Sualio, EITag, TIKOTAG, TIKOTAG Pro, Locator, Wireless card, itemN locator, itemX locator, Wireless locator, Smart tag, mini card, mini card locator, wireless card locator
Trade Mark : N/A
Applicant : Shenzhen Vision Future Technology Co., Ltd.
Address : 3F, Building D, Jinch Technology Park, No. 3 Jiuwei 1st Road, Hangcheng St., Baoan Dist., Shenzhen
Manufacturer : Shenzhen Vision Future Technology Co., Ltd.
Address : 3F, Building D, Jinch Technology Park, No. 3 Jiuwei 1st Road, Hangcheng St., Baoan Dist., Shenzhen

This is to certify that, on the basis of the tests undertaken as per Report No.: SIT240506160202SR, the submitted sample of the above item complied with:

Test standards:	Report(s) Number	Issued By	Issued Date
IEC 60529:1989+AMD1:1999+AMD2:2013	SIT240506160202SR	SIT	May 11, 2024

And fulfills testing requirement of European standards IEC 60529:1989+AMD1:1999+AMD2:2013 (IP code:X6).

IPX6

Authorized Signer: _____



Department Manager

Date: May 11, 2024



Certificate of Conformity

Certificate No. : SIT240506160202R
Product : Locator
Model : S10, Wireless tag, S1, S2, S3, S4, S5, S6, S7, S8, S9, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, HB02, HB09, HB10, HB11, HB12, HB13, HB14, HB15, HB16, Smart Locator, Sualiotag, Sualio, EITag, TIKOTAG, TIKOTAG Pro, Locator, Wireless card, itemN locator, itemX locator, Wireless locator, Smart tag, mini card, mini card locator, wireless card locator
Trade Mark : N/A
Applicant : Shenzhen Vision Future Technology Co., Ltd.
Address : 3F, Building D, Jinchi Technology Park, No. 3 Jiuwei 1st Road, Hangcheng St., Baoan Dist., Shenzhen
Manufacturer : Shenzhen Vision Future Technology Co., Ltd.
Address : 3F, Building D, Jinchi Technology Park, No. 3 Jiuwei 1st Road, Hangcheng St., Baoan Dist., Shenzhen

The above products have been tested by us with listed standards and found in compliance with the council RoHS 2011/65/EU and revise directive(EU)2015/863.

It is possible to use RoHS marking to demonstrate the compliance with this RoHS.

Test standards:	Report(s) Number	Issued By	Issued Date
IEC 62321-3-1:2013 IEC 62321-4:2013+AMD1:2017 IEC 62321-5:2013 IEC 62321-6:2015 IEC 62321-7-1:2015 IEC 62321-7-2:2017 IEC 62321-8:2017	SIT240506160202RR	SIT	May 11, 2024

This certificate of conformity is not transferable and based on an evaluation of a sample of the above mentioned product.

RoHS

Authorized Signer: _____



Department Manager

Date: May 11, 2024

Shenzhen SIT Testing Technology Co., Ltd.

Email: info@sitcert.com

Tel: (86)-0755-29173399

Fax: (86)-0755-29179933

[Http://www.sit-cert.com](http://www.sit-cert.com)

General Certificate of Conformity

Certificate No.	: NCT24019159XS1-1
Product Name	: Locator
Model No.	: see page 2
Applicant	: Shenzhen Vision Future Technology Co., Ltd.
Address	: 3F, Building D, Jinchi Technology Park, No. 3 Jiuwei 1st Road, Hangcheng St., Baoan Dist., Shenzhen, China
Manufacturer/ importer	: Shenzhen Vision Future Technology Co., Ltd.
Address	: 3F, Building D, Jinchi Technology Park, No. 3 Jiuwei 1st Road, Hangcheng St., Baoan Dist., Shenzhen, China
Manufacturer/ importer telephone	: 18565793530
Date of manufacture	: 2024-05
Trademark	: N/A
Contact information for the individual maintaining records of test results	
Contact name	: Liu Ping
Contact telephone	: 18565793530
Contact e-mail	: 1786977455@qq.com
Contact address	: 3F, Building D, Jinchi Technology Park, No. 3 Jiuwei 1st Road, Hangcheng St., Baoan Dist., Shenzhen, China

The above products have been tested by us with the listed standards and found in compliance with Code of Federal Regulations Title 16 Chapter II Subchapter B Part 1263 (16 CFR part 1263).

Test standards:	Report(s) Number	Issued By	Issued Date
UL 4200A:2023	NCT24019159XS1-1	NCT	May 11, 2024

This certificate of conformity is not transferable and based on an evaluation of a sample of the above mentioned product.

Date: May 11, 2024

Signature: _____



Shenzhen NCT Testing Technology Co., Ltd.

Hotline: 400-886-8419

<http://www.ncttesting.cn>

B2A101/B2A201/B2A202, Fuqiao 6th Area, Xintian, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Model No.

S10, Wireless tag, S1, S2, S3, S4, S5, S6, S7, S8, S9, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, HB02, HB09, HB10, HB11, HB12, HB13, HB14, HB15, HB16, Smart Locator, Sualiotag, Sualio, EITag, TIKOTAG, TIKOTAG Pro, Locator, Wireless card, itemN locator, itemX locator, Wireless locator, Smart tag, mini card, mini card locator, wireless card locator



Shenzhen NCT Testing Technology Co., Ltd.

Hotline:400-886-8419

<http://www.ncttesting.cn>

B2A101/B2A201/B2A202, Fuqiao 6th Area, Xintian, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEST REPORT


For
Locator


Model: S10(Other model see page 2)


Prepared for: Shenzhen Vision Future Technology Co., Ltd.
3F, Building D, Jinchi Technology Park, No. 3 Jiuwei 1st Road, Hangcheng
St., Baoan Dist., Shenzhen, China


Prepared by: Shenzhen NCT Testing Technology Co., Ltd.
B2A101, B2A201, B2A202, Fuqiao 6th Area, Xintian Community, Fuhai
Street, Bao'an District, Shenzhen, Guangdong, China
TEL: +86-755-23218380

Report Number: NCT24019159XS1-1
Date of Test: May 07, 2024~ May 09, 2024
Date of Issue: May 11, 2024

Tested By: 
Peanut Ye

Reviewed By: 
Ethan Lu

Approved By: 
Boris Lin



TEST REPORT UL 4200A STANDARD FOR SAFETY Products Incorporating Button Batteries or Coin Cell Batteries	
Report Number	: NCT24019159XS1-1
Date of issue	: May 11, 2024
Total number of pages	: 16 Pages.
Testing laboratory	: Shenzhen NCT Testing Technology Co., Ltd.
Address	: B2A101, B2A201, B2A202, Fuqiao 6th Area, Xintian Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Testing location	: As above
Applicant's name	: Shenzhen Vision Future Technology Co., Ltd.
Address	: 3F, Building D, Jinchi Technology Park, No. 3 Jiuwei 1st Road, Hangcheng St., Baoan Dist., Shenzhen, China
Manufacturer's name	: Shenzhen Vision Future Technology Co., Ltd.
Address	: 3F, Building D, Jinchi Technology Park, No. 3 Jiuwei 1st Road, Hangcheng St., Baoan Dist., Shenzhen, China
Importer name	: N/A
Address	: N/A
Test specification :	
Standard	: UL 4200A:2023
Test procedure	: Test report
Test result	: Pass
Non-standard test method	: N/A
Test Report Form No.	: UL 4200A-2023-V2
TRF Effective Date	: 2024-04-22
Test item description	: Locator
Trade Mark	: N/A
Model/type reference	: S10, Wireless tag, S1, S2, S3, S4, S5, S6, S7, S8, S9, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, HB02, HB09, HB10, HB11, HB12, HB13, HB14, HB15, HB16, Smart Locator, Sualiotag, Sualio, EITag, TIKOTAG, TIKOTAG Pro, Locator, Wireless card, itemN locator, itemX locator, Wireless locator, Smart tag, mini card, mini card locator, wireless card locator
Ratings	: N/A

List of Attachments (including a total number of pages in each attachment):

Attachment 1: Photo Documentation (2 pages);

Summary of testing:

S10 tested and fulfilled the test specifications.
The tested model was complied with the test standard UL 4200A.

Factory:

Same as applicant

Test item particulars:

Equipment mobility: Portable
Operating condition.....: Continuous

Possible test case verdicts:

Test case does not apply to the test object.....: N/A
Test object does meet the requirement.....: P(ass)
Test object does not meet the requirement.....: F(ail)

Testing:

Date of receipt of test item.....: May 07, 2024
Date(s) of performance of tests.....: May 07, 2024~ May 09, 2024

General remarks:

This report shall not be reproduced, except in full, without the written approval of the testing laboratory.
The test results presented in this report relate only to the object tested.
"(see remark #)" refers to a remark appended to the report.
"(see appended table)" refers to a table appended to the report.
Throughout this report a point is used as the decimal separator.

General product information:

Battery type CR2032, 1pcs. Battery assembly not accessible and not replaceable for consumer

Model difference:


N/A

Copy of marking plates:

Product Marking:

Locator Model: S10	
Shenzhen Vision Future Technology Co., Ltd. Made in China	

Packaging Markings:

⚠ WARNING	
<ul style="list-style-type: none">• INGESTION HAZARD: This product contains a button cell or coin battery.• DEATH or serious injury can occur if ingested.• A swallowed button cell or coin battery can cause Internal Chemical Burns in as little as 2 hours.• KEEP new and used batteries OUT OF REACH of CHILDREN• Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.	

Product contains non-replaceable batteries
Battery: CR2032
Battery voltage: 3.0V

Note:

- 1) The Packaging Markings icon shall be at least 7 mm in width and 9 mm in height.
- 2) The all signal word "WARNING" must be at least 0.2 in (5 mm) high. The remainder of the text must be in characters whose upper case must be at least 0.1 in (2.5 mm), except where otherwise specified.

UL 4200A:2023			
Clause	Requirement + Test	Result - Remark	Verdict

INTRODUCTION			
1	Scope		P
2	Units of Measurement		P
3	Undated References		P
4	Glossary		P
CONSTRUCTION			
5	Products with Button/Coin Cell Batteries		P
5.1	Products that use button/coin cell batteries shall be designed to minimize the risk of children removing and ingesting or aspirating the batteries. Products that allow user removal or replacement of button/coin cells shall comply with the requirements of 5.2 – 5.6. Products with button/coin cells that are not intended to allow user removal/replacement of the cells shall comply with 5.7.	Not intended to allow user removal/replacement of the cells, see 5.7	P
5.2	To reduce the likelihood of unintentional access, products with removable or replaceable button/coin cell batteries shall not allow the button/coin cell to be contacted by Test Probe 11 of the Standard for Protection of Persons and Equipment by Enclosures – Probes for Verification, IEC 61032 when applied as described in 5.3.		N/A
5.3	The probe shall be applied to any depth that the opening will permit and shall be rotated or angled before, during, and after insertion through the opening to any position that is necessary to examine the enclosure. The probe shall be used as a measuring instrument to judge the accessibility provided by an opening, and not as an instrument to judge the strength of a material. The probe shall be applied with the minimum force necessary to determine accessibility.		N/A
5.4	During the examination of a product to determine whether it complies with the requirements in 5.3, a part of the enclosure that may be opened or removed by the user, either without using a tool or with less effort than two independent and simultaneous movements by hand, is to be opened or removed.		N/A
5.4A	If a part of the battery compartment enclosure is protected by pliable material such as fabric, paper, foam, or vinyl, or a pliable material with a seam, apply the Tension Test for Seams in Stuffed Toys and Beanbag-Type Toys test in the Standard Consumer Safety Specification for Toy Safety, ASTM F963, to determine whether the battery compartment enclosure can become exposed or accessible, using a force of at least 70.0 N (15.7 lbf).		N/A

UL 4200A:2023			
Clause	Requirement + Test	Result - Remark	Verdict
	If a new part of the battery compartment enclosure becomes exposed or accessible, repeat 5.4 and remove any further pliable material that is then exposed until no new part of the battery compartment enclosure becomes exposed or accessible, and then conduct the test in 5.3.		
5.5	<p>Products that locate removable or replaceable button/coin cell batteries inside a battery compartment shall be designed to prevent children from removing the battery by one of the following methods in (a) or (b) below. Compliance is checked by the tests of Section 6.</p> <p>a) A tool, such as a screwdriver or monetary coin, is required to open the battery compartment. For a battery compartment secured by a screw or a twist-on access cover, a minimum torque of 0.5 Nm and a minimum angle of 90 degrees of rotation shall be required to open the compartment or the fastener shall engage a minimum of two full threads; or</p> <p>b) The battery compartment door or cover requires the application of a minimum of two independent and simultaneous movements to open by hand. The movements to open shall not be combinable to a single movement with a single finger or digit.</p>		N/A
5.6	If screws or similar fasteners are used to secure the door or cover providing access to a battery compartment, the fasteners shall be captive to the door, cover, or device.		N/A
	<i>Exception No. 1: Applies to products containing button batteries or coin cell batteries not intended to be replaced by the consumer. Products containing button batteries or coin cell batteries that can only be accessed through the removal of multiple enclosures or panels using a tool do not need captive screws. Such products shall have instructions and warnings that clearly state the battery is not to be replaced by the consumer.</i>		N/A
	<i>Exception No. 2: Applies to products containing batteries not intended to be replaced by the consumer. Products that are only to be opened by a professional service center (where children are not present) are not required to have secured screws. Such products shall have instructions and warnings that clearly state the battery is not to be replaced by the consumer.</i>		N/A
5.7	Products that incorporate button/coin cells that are not intended for user removal or replacement shall effectively prevent removal of the battery by the user or children. The button/coin cell shall be:	a)	P

UL 4200A:2023			
Clause	Requirement + Test	Result - Remark	Verdict
	<p>a) Made inaccessible by an enclosure or similar means that passes the applicable tests of 6.2 and 6.3; or</p> <p>b) Held fully captive by the use of soldering, fasteners such as rivets, or equivalent means. The securement method shall pass the Secureness Test of 6.4.</p>		
PERFORMANCE			
6	Protection from Ingestion or Aspiration of Button/Coin Cell Batteries		P
6.1	General		P
6.1.1	Products shall not present a risk of unintentional access by children to button/coin cells. Button/coin cell batteries shall not be accessible or liberated from the product as a result of mechanical abuse tests in applicable safety standards for the product, and products with button/coin cells shall comply with the tests in 6.2 – 6.4.		P
6.2	Pre-conditioning		P
6.2.1	<p>One test sample shall be subjected to the following pre-conditioning conditions in sequence prior to testing in 6.3 and 6.4, as applicable:</p> <p>a) Stress Relief Test – A product with an enclosure, battery compartment door/cover or battery compartment door/cover opening mechanism made of molded or formed thermoplastic materials shall be subjected to a stress relief test. A sample of the complete product is to be placed in a circulating air oven for a period of 7 h. The oven temperature is to be set to the higher of (1) or (2) below. After removal from the oven, the sample is permitted to cool to room temperature.</p> <p>1) 70°C (158°F); or</p> <p>2) 10°C (18°F) higher than the maximum temperature of thermoplastic enclosures, battery compartment door/covers, or battery compartment door/cover mechanisms during the most stringent normal operation of the device.</p> <p>b) Battery Replacement Test – The battery compartment door/cover shall be opened and closed, and the battery removed and replaced, for a total of ten cycles. The process shall simulate replacement according to the manufacturer's instructions. If the battery compartment is secured with a screw (s), the screw (s) is to be loosened and then tightened by means of a suitable screwdriver, applying a continuous linear torque according to the Torque to be Applied to Screws table, Table 20, of the Standard for Audio, Video</p>	Test as required.	P

UL 4200A:2023			
Clause	Requirement + Test	Result - Remark	Verdict
	and Similar Electronic Apparatus – Safety Requirements, UL 60065.		
6.3	Abuse tests		P
6.3.1	General		P
6.3.1.1	The tests in 6.3.2 – 6.3.4 shall be performed sequentially, as applicable, on one pre-conditioned sample of the product. After all test conditions have been completed, compliance is checked by 6.3.5.		P
6.3.2	Drop test for portable devices and hand-held products		P
6.3.2.1	Portable devices are subjected to drop tests from a height of 1.0 m (39.4 in) onto a horizontal hardwood surface in positions likely to produce the maximum force on the battery compartment or enclosure. Portable devices are subjected to three drops, except hand-held products are subjected to ten drops. The hardwood surface shall be at least 13-mm (1/2-in) thick, mounted on two layers of nominal 19-mm (3/4-in) thick plywood, placed on a concrete or equivalent non-resilient surface.	Complied.	P
6.3.3	Impact test		P
6.3.3.1	6.3.3.1 The enclosure or battery compartment door/cover shall be subject to three, 2-J (1.5-ft-lbf) impacts. This impact is to be produced by dropping a steel sphere, 50.8 mm (2 inches) in diameter, and weighing approximately 0.5 kg (1.1 lb) from the height required to produce the specified impact, as shown in Figure 6.1, or the steel sphere is to be suspended by a cord and swung as a pendulum, dropping through the vertical distance required to cause it to strike the surface with the specified impact as shown in Figure 6.2. The steel sphere is to strike the battery compartment door/cover perpendicular to the enclosure surface.	Complied.	P
6.3.4	Crush test		P
6.3.4.1	The sample is to be supported by a fixed rigid supporting surface, in positions likely to produce the most adverse results as long as the position can be self-supported. A crushing force of 330 ± 5 N (74.2 ± 1.1 lbf) is applied for a period of 10 s to the exposed surfaces. The force is to be applied by a flat surface measuring approximately 100 by 250 mm (3.9 by 9.8 in).	Complied.	P
6.3.4A	Torque test		P
6.3.4A.1	If a child can grasp any part of the battery compartment enclosure on a consumer product, including the door or cover, with at least the thumb and forefinger, or using teeth, apply the Torque Test for Removal of Components from the Standard		P

UL 4200A:2023			
Clause	Requirement + Test	Result - Remark	Verdict
	Consumer Safety Specification for Toy Safety, ASTM F963, to the battery compartment enclosure, using a torque of at least 0.50 Nm (4.4 in-lbf)		
6.3.4B	Tension test		P
6.3.4B.1	If a child can grasp any part of the battery compartment enclosure on a consumer product, including the door or cover, with at least the thumb and forefinger, or using teeth, apply the Tension Test for Removal of Components from the Standard Consumer Safety Specification for Toy Safety, ASTM F963, to the battery compartment enclosure, using a force of at least 72.0 N (16.2 lbf)	Complied.	P
6.3.4C	Compression test		P
6.3.4C.1	If any surface of the battery compartment enclosure is accessible to a child and inaccessible to a flat surface contact during the Drop test in 6.3.2, apply the Compression Test from the Standard Consumer Safety Specification for Toy Safety, ASTM F963, to that surface, using a force of at least 136 N (30.6 lbf).	Complied.	P
6.3.5	Compliance		P
6.3.5.1	After the tests of 6.3.2 – 6.3.4, a force of 50 ± 10 N ($11.2 \pm 2.2/-0$ lbf) is applied for 10 s to the battery compartment door/cover or enclosure by a rigid test finger according to Test Probe 11 of the Standard for Protection of Persons and Equipment by Enclosures – Probes for Verification, IEC 61032. The probe is applied at the most unfavorable place and in the most unfavorable direction. The force shall be applied in only one direction at a time. A battery compartment door/cover shall not open and shall remain functional. The battery shall not be accessible.	Complied.	P
6.4	Secureness test		N/A
6.4.1	Button/coin cells that are not intended for user removal or replacement, and are accessible based on 5.3 and 5.4, shall comply with the following test. Compliance is checked by application of a test hook as shown in Figure 6.3, with a force of 20 ± 2 N (4.5 ± 0.4 lbf), directed outwards, applied for 10 s at all points where this is possible. During the test, the button/coin cell shall not become separated from the product.		N/A
MARKINGS			
7	General		P
7A	General		P
7A.1	All warning statements or icons shall be prominent, legible, easily discernable under normal lighting conditions, and permanently marked.		P

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Clause	Requirement + Test	Result - Remark	Verdict
7A.2	Unless otherwise specified, instructional safeguards do not have to be in multiple colors. If an instructional safeguard is present in more than one color to indicate hazard severity, the color shall be in accordance with the ISO 3864 series		P
7A.3	Printed or screened markings shall also be permanent.		P
7A.4	Legibility of markings is determined by inspection. Permanency is determined by the tests of Section 7D, Permanence of Markings		P
7A.5	Markings must be in the official language(s) of the country where the product is sold or in English if there is no official language(s)		P
7A.6	The safety alert symbol, an exclamation mark in a triangle, when used with the signal word, must precede the signal word. The base of the safety alert symbol must be on the same horizontal line as the base of the letters of the signal word. The height of the safety alert symbol must equal or exceed the signal word letter height.		P
7A.7	Certain text in the message panel must be in bold and in capital letters as shown in the example warning labels to get the attention of the reader.		P
7A.8	For labels that are provided on a sticker, hang tag, instructions or manual, the safety alert symbol and the signal word "WARNING" must be at least 0.2 in (5 mm) high. The remainder of the text must be in characters whose upper case must be at least 0.1 in (2.5 mm), except where otherwise specified.		P
7A.9	For labels that are required to be on the packaging of consumer products and directly on consumer products, text size shall be dependent on the area of the principal display panel. Text size shall be determined based on Table 7A.1.		P
7B	Packaging Markings		P
7B.1	Except as allowed in 7B.2 and 7B.3, the principal display panel shall contain the warning label in Figure 7B.1 or Figure 7B.2. The icon in Figure 7B.1 shall be at least 7 mm in width and 9 mm in height. The icon in Figure 7B.2 shall be at least 8 mm (0.31 in) in diameter. The text in the warning label shall be as shown in Figure 7B.1 or Figure 7B.2. When on a printed label using more than one color the marking must use colors as shown in Figure 7B.1 or Figure 7B.2.	7B.1	P
7B.2	Consumer products that are not contained in packaging shall have the warning label in Figure	See above	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	7B.1 or Figure 7B.2 affixed to the consumer product with a hang tag or a sticker label.		
7B.3	When space on the principal display panel of the consumer product packaging does not permit the warning label in Figure 7B.1 or Figure 7B.2, the principal display panel shall include the warning in Figure 7B.3 in a conspicuous location. The icon shall be at least 7 mm in width and 9 mm in height. The remaining warning statements must be on a secondary display panel, as shown in Figure 7B.4. The text in the warning labels shall be as shown in Figure 7B.3 and Figure 7B.4. When on a printed label using more than one color the marking must use colors as shown in Figure 7B.3 and Figure 7B.4.	See above	N/A
7B.4	The principal display panel or secondary display panel of the consumer product packaging, or if there is no consumer product packaging, the accompanying hang tag or sticker label, shall include the following text: a) For products with non-replaceable batteries, include a statement indicating the product contains non-replaceable batteries; b) Battery type (e.g., LR44, CR2032); and c) Nominal voltage.	on product packaging	P
7C	Product Markings		P
7C.1	Except as provided in 7C.2 and 7C.3, consumer products shall be marked with a warning label on the product display panel that alerts the consumer of the presence of a button cell or coin battery. The warning text shall include the safety alert symbol, signal word, and text, as shown in Figure 7C.1. When on a printed label using more than one color the marking must use the color as shown in Figure 7C.1.	See below	N/A
7C.2	When space on the product is limited, use the "Warning: contains coin battery" icon shown in Figure 7C.2, without text. The icon must be at least 7 mm in width and 9 mm in height and must be on the product display panel. When on a printed label using more than one color the marking must use the color as shown in Figure 7C.2. The icon shall be defined in accompanying printed materials such as instructions, manual, insert, or hangtag.	Figure 7C.2 used	P
7C.3	When the product itself is too small to include the warning with text in Figure 7C.1 or the icon in Figure 7C.2, the product shall: a) Have packaging containing the warning label following the requirements in Section 7B, Packaging Markings; or	See above	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	b) Contain a hangtag or sticker label with the full warning label using requirements in Section 7B, Packaging Markings.		
7D	Permanence of Markings		P
7D.1	General		P
7D.1.1	Each required printed or screened marking shall be tested. However, if the data sheet for a label confirms compliance with the test requirements, the test need not be performed.		P
7D.2	Testing procedure		P
7D.2.1	The test is conducted by rubbing the marking by hand without appreciable force for 15 s with a piece of cloth soaked with water and at a different place or on a different sample for 15 s with a piece of cloth soaked with the petroleum spirit specified in 7D.3.		P
7D.3	Petroleum spirit		P
7D.3.1	Petroleum spirit is a reagent grade hexane with a minimum of 85 % n-hexane.		P
7D.4	Compliance criteria		P
7D.4.1	After each test, the marking shall remain legible. If the marking is on a separable label, the label shall show no curling and shall not be removable by hand.	compliance	P
INSTRUCTIONS			
9	General		P
9.1	<p>Instructions and manuals, if provided, shall include all of the applicable markings in Figure 7B.1 or Figure 7B.2 and the statements noted below. If instructions and manuals are not provided, the statements shall be present on the principal display panel or secondary display panel of the consumer product packaging, or if there is no consumer product packaging, the accompanying hang tag or sticker label.</p> <p>a) The statement "Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate."</p> <p>b) The statement "Even used batteries may cause severe injury or death."</p> <p>c) The statement "Call a local poison control center for treatment information."</p> <p>d) A statement indicating the compatible battery type (e.g., LR44, CR2032).</p> <p>e) A statement indicating the nominal battery voltage.</p>		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	<p>f) The statement “Non-rechargeable batteries are not to be recharged.</p> <p>g) The statement “Do not force discharge, recharge, disassemble, heat above (manufacturer’s specified temperature rating) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.”</p>		
9.2	<p>Products with replaceable button/coin cell batteries shall additionally include:</p> <p>a) The statement “Ensure the batteries are installed correctly according to polarity (+ and -).”</p> <p>b) The statement “Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.”</p> <p>c) The statement “Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.”</p> <p>d) The statement “Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.”</p>		N/A
9.3	<p>Products with non-replaceable button/coin cell batteries shall additionally include a statement indicating the product contains non-replaceable batteries.</p>	See user’s manual.	P

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Clause	Requirement + Test	Result - Remark	Verdict

Critical Components					
Object/ Part No.	Manufacturer/ Trademark	Type/Model	Technical data	Standard	Mark(s) of conformity
Cell	--	CR2032	--	--	--
Enclosure	--	--	Plastic	--	--



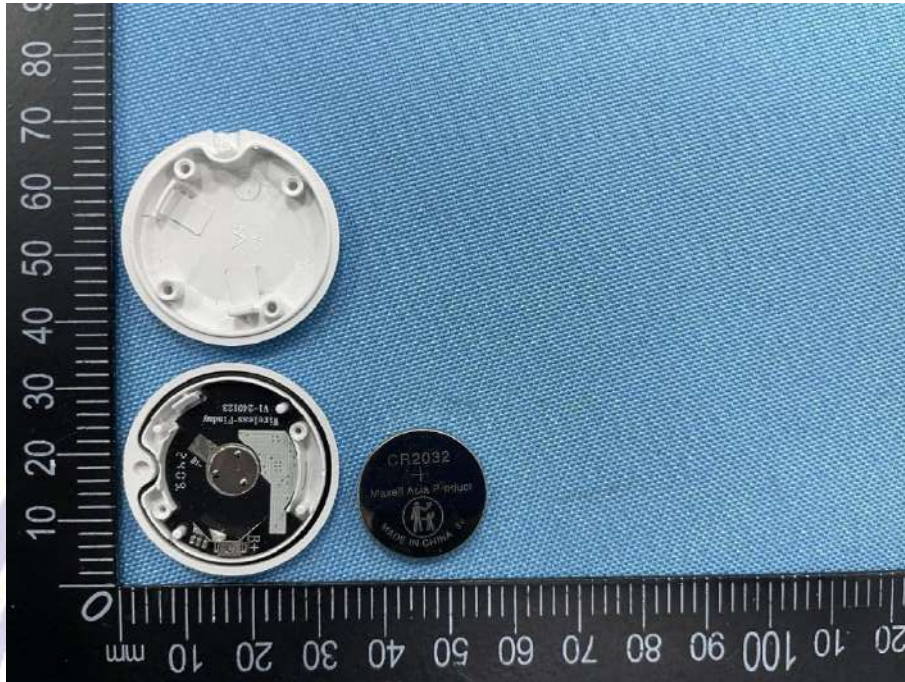
Attachment 1: Photo Documentation



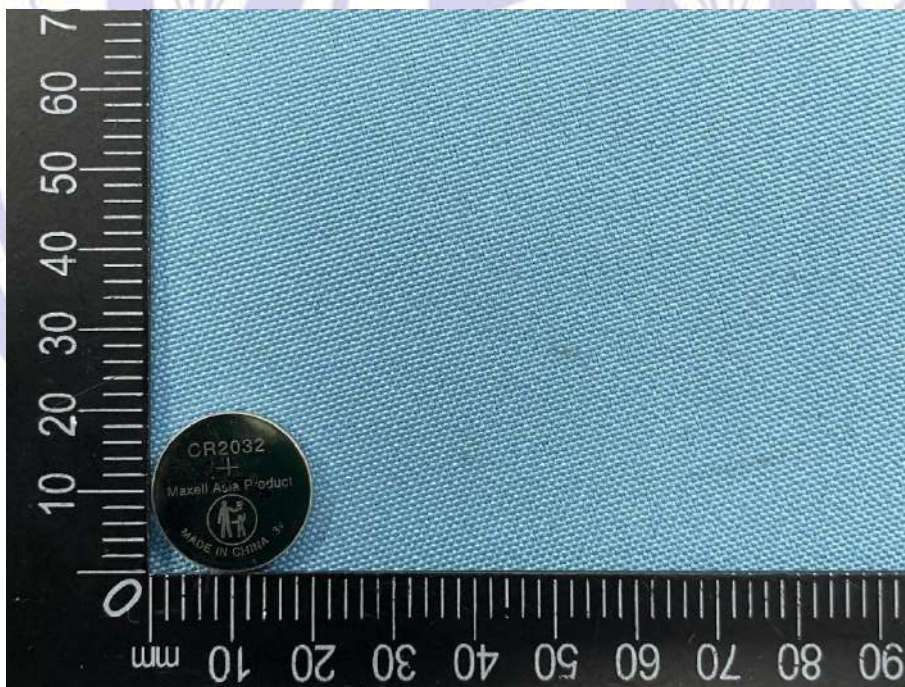
Picture 1 overview



Picture 2 overview



Picture 3 internal view



Picture 4 Cell view

--End of report--