



## Supplier's Test Summary

in accordance with UN Manual of Tests and Criteria  
Part III, subsection 38.3

### Information about the manufacturer

Name VARTA Microbattery GmbH  
 Address Daimlerstrasse 1  
 73479 Ellwangen  
 Germany  
 Phone +49 7961 921-0  
 E-mail info@varta-microbattery.com  
 Website www.varta-microbattery.com

### Description of the product

Type Lithium ion cell  
 Physical description Rechargeable lithium ion button cell

### Product test information

Each object of this declaration has been tested and was found to be compliant with the UN Manual of Test and Criteria, Part III, subsection 38.3. This includes all single cells and battery assemblies containing not more than one cell of those given in the following list.

Model	Mass	Wh rating	Edition of the manual of test and criteria ST/SG/AC.10/11	Test report number	Test report date
CP1454A3	2.3 g	0.3 Wh	Rev. 5 Amend. 2 (2013)	1116050015	2016-06-07

### List of tests conducted and results

Test Item	Test Result	Test Item	Test Result
T1. Altitude simulation	pass	T5. External short circuit	pass
T2. Thermal test	pass	T6. Crush	pass
T3. Vibration	pass	T7. Overcharge	N/A
T4. Shock	pass	T8. Forced Discharge	pass

### Test laboratories

The tests were performed by the following test laboratory.

Name	Shanghai Research Institute of Chemical Industry (SRICI) Testing Centre
Address	No. 345 Yunling East Road, Pudong Shanghai 200062 China
Phone	+86 21-52569800
E-mail	msds123@gmail.com
Website	www.ghs.cn

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**Additional information**

In original VARTA packaging the products comply with the following special provisions of international transport regulations:

- IATA DGR: Packing Instruction 965 Section IB (max. 30 % state of charge)  
(Transportations of cells or batteries packed with equipment or contained in equipment have to follow Packing Instructions 966 or 967 Section II.)
- ADR/RID/ADN/IMDG Code: Special Provision 188
- DOT / 49 CFR: §173.185 (c)

The products have been manufactured under a quality management program according to IATA DGR clause 3.9.2.6.1 (e), ADR clause 2.2.9.1.7 e), and IMDG code clause 2.9.4.5.

Ellwangen, 2019-06-04

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*(place and date of issue)*

VARTA Microbattery GmbH  
Daimlerstrasse 1  
D-73479 Ellwangen  
Germany  


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(company stamp)

i. A. 

Dr. Sebastian Röhler  
Manager Product Compliance

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(signature)

## UN 38.3 Lithium Battery Test Summary

### Cell, Battery or Product Model Number

Item Number:

Item Name: Li-ion Battery AHB521630PR 3.7V 240mAh 0.9Wh

### Cell, battery, or product manufacturer's contact information

Name: Kunshan SYnergy ScienTech Co.,Ltd

Address: No.688, Nanhe Road, Economic&amp;Technical Development Zone, Kunshan, Jiangsu

City: KunShan

State: Jiangsu

ZIP: 215300

Country: China

Telephone: +86-512-57710688

E-mail: hmsong@synst.com.cn

Website: http://www.synst.com.cn

### Test Laboratory

Name: The laboratory for UN38.3 of Kunshan SYnergy ScienTech Co.,Ltd

Address: 688# Nanhe Road Kunshan

City: KunShan

State: Jiangsu

ZIP: 215300

Country: China

Telephone: +86-0512-57710688-3411

E-mail: alice@synst.com.cn

Website: http://www.synst.com.cn

### Cell or Battery Description

Cell or Battery: <b>Battery</b>		Physical Description (dimensions, appearance):			
Cell or Battery Type: AHB521630PR		<b>Silvery aluminum-plastics shell</b>			
Watt-hour rating or Lithium Content: 0.9Wh					
Completed Cell or Battery Weight: Approx. 5.5 g					
Unique Test Report ID Number: UN18122202		Date of test report: 2018-12-23~2019-01-22			
<b>List of Tests Completed:</b>					
Yes	No		Pass	Fail	Additional Comments (or indicate compliance with other standards, e.g., Underwriters Laboratory):
Yes		Test T.1: Altitude simulation	Pass		<b>Not Applicable</b>
Yes		Test T.2: Thermal test	Pass		
Yes		Test T.3: Vibration	Pass		
Yes		Test T.4: Shock	Pass		<b>Not Applicable</b>
Yes		Test T.5: External short circuit	Pass		
Yes		Test T.6: Impact/Crush	Pass		Reference to the revised edition of the Manual of Tests and Criteria used and to amendments thereto, if any:
Yes		Test T.7: Overcharge	Pass		
Yes		Test T.8: Forced discharge	Pass		
					<b>Sixth Edition</b>

Signature with name and title of signatory as an indication of the validity of information provided:

Date:

张同芳 laboratory engineer

2019-11-1

