

UN 38.3 LITHIUM BATTERY TESTING

BLUEYE STANDARD BATTERY
RECHARGABLE LI-ION / 4S3P / US18650VTC4

PREPARED FOR:

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Norway

REPORT NO:

2408220STO-202

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DATE:

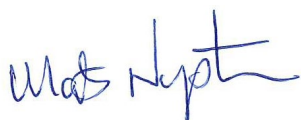
2025-12-18

UN 38.3 LITHIUM BATTERY TESTING

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EXECUTIVE SUMMARY

Blueye Standard Battery 4S3P / US18650VTC4 has been verified to conform to the test requirements according to the UN Manual of Tests and Criteria "Recommendations on the Transport of Dangerous Goods" section 38.3 Lithium batteries, Test T.1 - T.5 and T.7, document number ST/SG/AC.10/11/Rev.8 2023.

Blueye 4S3P / US18650VTC4	
Battery type:	Rechargeable Lithium-Ion battery, 4S3P
Cell:	Murata US18650VTC4, 3,6 V, 2000 mAh
Nominal voltage:	14,4 V
Capacity:	6 Ah
Energy:	86,4 Wh
Mass:	1265 g
Construction:	Diameter: 61,4 mm Length: 312 mm

The test results apply only to the tested samples.



Picture 1: Blueye Standard Battery 4S3P / US18650VTC4

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References:

UN Manual of Tests and Criteria "Recommendations on the Transport of Dangerous Goods" section 38.3
Lithium batteries. Document number ST/SG/AC.10/11/Rev.8 2023.

1 COMMISSION

Intertek Semko AB has been commissioned by Schive AS to perform UN 38.3 testing in accordance with our proposal No. SO2408220.

2 TEST SAMPLES

Table 2.1

Brand	Model	Serial number	Sample number
Blueye	4S3P/US18650VTC4	SCB23385726 SCB23385588 SCB23385569 SCB23385723	2408220:B1-B4
Blueye	4S3P/US18650VTC4	SCB23385579 SCB23385567 SCB23385562 SCB23385555	2408220:B5-B8
Blueye	4S3P/US18650VTC4	SCB23385578 SCB23385553 SCB23385735 SCB23385725	2408220:B9-B12
Blueye	4S3P/US18650VTC4	SCB23385556 SCB23385585 SCB23385583 SCB23385573	2408220:B13-B16
Delivery Date:	2025-09-23		

note: Sample number is Intertek Semko AB identification for each sample. The test samples were delivered from Schive AS.

The battery pack in table 2.1 is defined as Small battery according to definitions in UN 38.3.

Blueye 4S3P / US18650VTC4	
Battery type:	Rechargeable Lithium-Ion battery
Nominal voltage:	14,4 V
Capacity:	6 Ah
Energy:	86,4 Wh
Mass:	1265 g
Construction:	Diameter: 61,4 mm Length: 312 mm

3 TEST PROGRAM

Test methods in Table 3.1 are according to UN 38.3.

Test	Description		Fully charged at first cycle	Fully charged after 25 cycles	Location	Test sample
T.1	Altitude		4 samples	4 samples	Intertek Kista	2408220:B9-12 2408220:B13-16
T.2	Thermal test		4 samples	4 samples	Intertek Järfälla	2408220:B9-12 2408220:B13-16
T.3	Vibration		4 samples	4 samples	Intertek Järfälla	2408220:B9-12 2408220:B13-16
T.4	Shock		4 samples	4 samples	Intertek Järfälla	2408220:B9-12 2408220:B13-16
T.5	External short circuit		4 samples	4 samples	Intertek Kista	2408220:B9-12 2408220:B13-16
T.7	Overcharge		4 samples	4 samples	Intertek Kista	2408220:B1-4 2408220:B5-8
	Total no of samples		8 samples	8 samples		

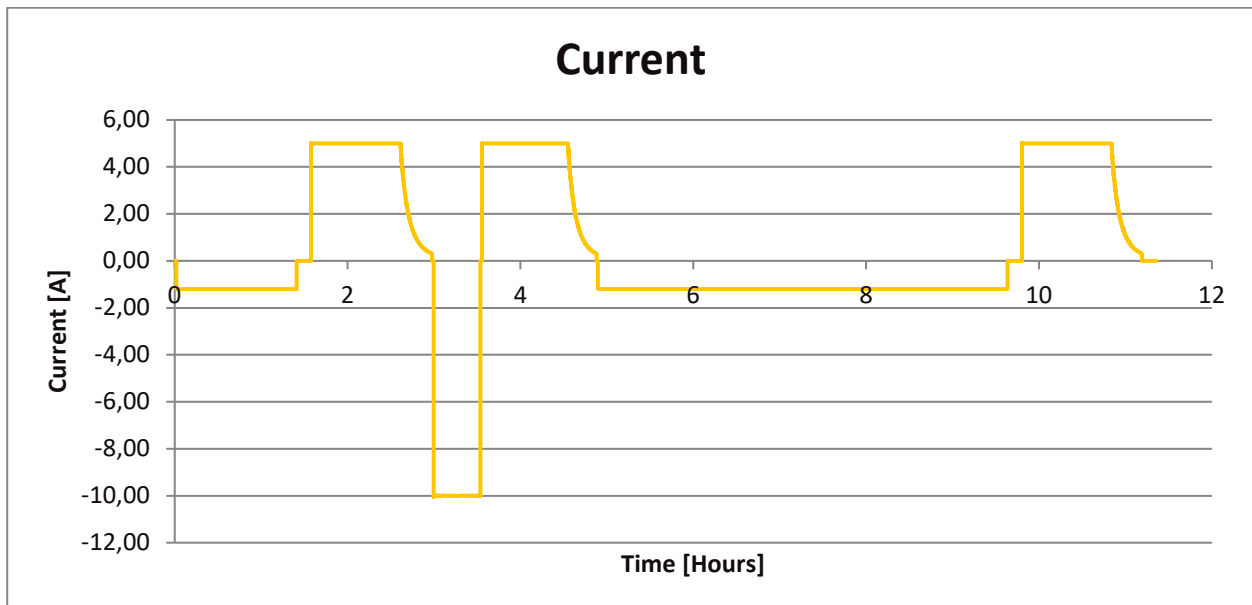
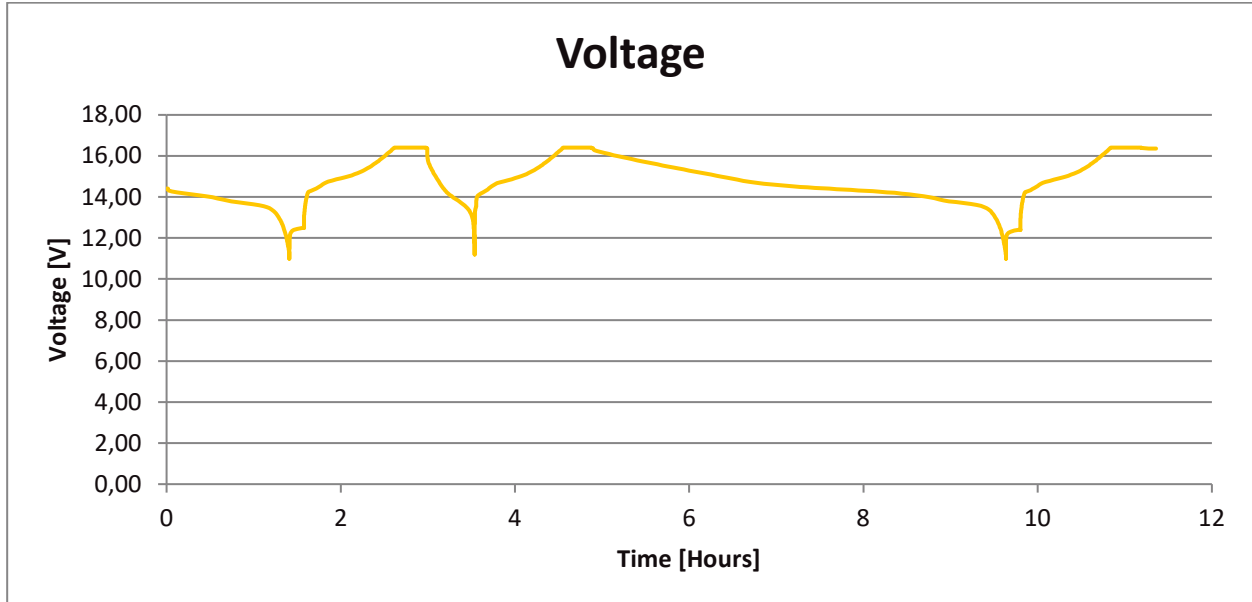
Test program procedure: Test T.1 - T.5 is performed in sequence on the same 8 (4 + 4) test samples. Test T.7 is performed on additional 8 (4 + 4) test samples. In total 16 batteries have been tested according to Table 3.1.

Test start: 2025-09-27

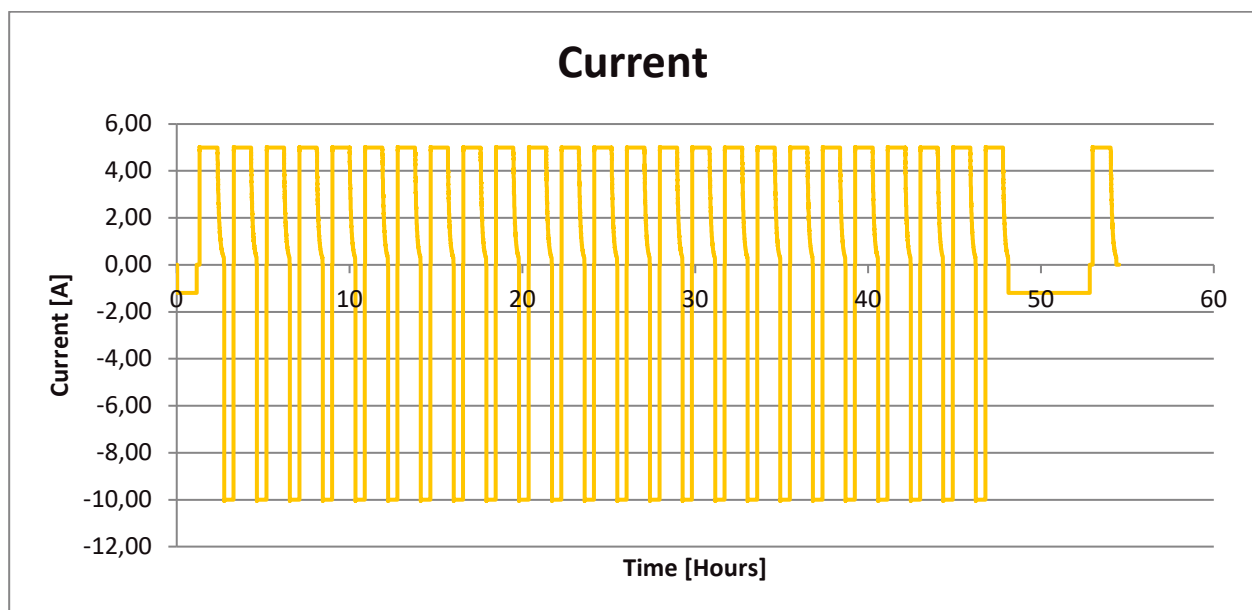
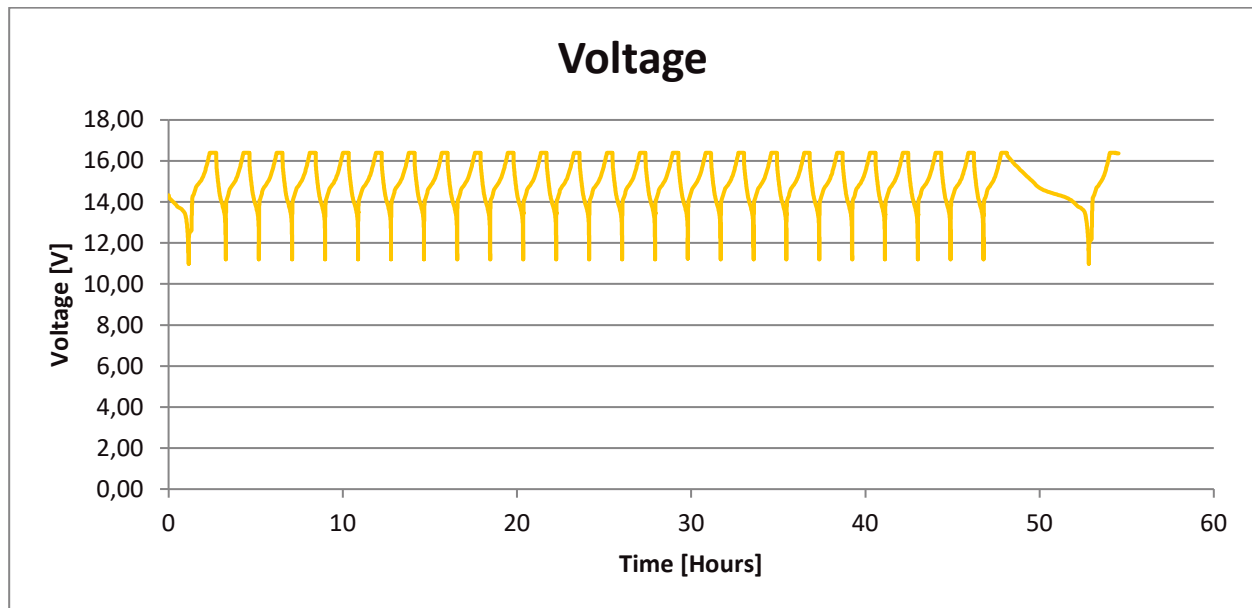
Test end: 2025-12-04

Preparation of test samples prior to testing:

- Fully charged after 1 cycle. Final charge current 5 A at 16,4 V and cut-off 300 mA. Final discharge current 1,2 A cut-off at 11,2 V.



- Fully charged after 25 cycles. Final charge current 5 A at 16,4 V and cut-off 300 mA. Final discharge current 1,2 A cut-off at 11,2 V.



4 TEST CONDITIONS

Test conditions are according to UN 38.3.

Testing was performed with the test equipment listed in Table 4.1.

Table 4.1 Test equipment

Clause	Description	Test equipment	Manufacturer	Model	Inventory number
	Other	Scale	Sartorius	CP224S	31591
	Other	Scale	Ohaus	SKX2202	34037
	Other	Digital Voltmeter	Fluke	287	31099
	Other	Temp/hum meter	Comet	W3711	34702
	Other	Charging station	PEC	SBT8050 - Rack C	31528
T.1	Altitude	Altitude chamber	Kungsängens Mekaniska verkstad	-	S6622
		Manometer	Keller	LE02	32608
		Vacuum pump	Piab	H250	6319
T.2	Thermal cycling	Temperature chamber	Thermotron	SE-600-15-15	31991
T.3 / T.4	Vibration / Shock	Electrodynamic vibrator	LDS	V8-440H	32660
		Controller	Vibration Research	VR9500	34119
		Accelerometer Ch1	Dytran	3056D1	33964
T.5	Short circuit	Test array	Intertek	-	32340
T.5	Short circuit	Data logger	Agilent	34972A	32388
T.5	Short circuit	Temp chamber	Friocell	222	31575
T.7	Overcharge	Test array	Intertek	-	32380
T.7	Overcharge	Data logger	Yokogawa	MX100	31499

5 TEST RESULTS

Blueye Standard Battery 4S3P / US18650VTC4 has been tested according to the UN Manual of Tests and Criteria "Recommendations on the Transport of Dangerous Goods" section 38.3 Lithium batteries, Test T.1 - T.5 and T.7, document number ST/SG/AC.10/11/Rev.8 2023.

Test results are summarized in Tables 5.1 – 5.6 below.

Possible test case verdicts:

- Test case does not apply to the test object.....: N/A
- Test object does meet the requirement.....: PASS
- Test object does not meet the requirement.....: FAIL

Test set-up and diagrams, see Appendix A.

UN 38.3 Lithium Battery Test Summery, see Appendix B.

Table 5 Summary of test results Model: 4S3P / US18650VTC4

Test	Description	Number of batteries		Result
		Fully charged 1 cycle	Fully charged 25 cycles	
T.1	Altitude	4	4	PASS
T.2	Thermal test	4	4	PASS
T.3	Vibration	4	4	PASS
T.4	Shock	4	4	PASS
T.5	Short circuit	4	4	PASS
T.7	Overcharge	4	4	PASS
	Total number of batteries	8	8	

Below follow the detailed results for each test according to UN 38.3 T.1 – T.5 and T.7.

5.1 Test T.1: Altitude simulation

Purpose

This test simulates air transport under low-pressure conditions.

Procedure

Test cells and batteries shall be stored at a pressure of 11,6 kPa (0,116 bar) or less for at least six hours at ambient temperature (20 ± 5 °C).

Requirement

Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.

Table 5.1 Test T.1: Altitude simulation

Sample number	OCV			Weight			Result
	Before test	After test	Change	Before test	After test	Mass loss	
4S3P / US18650VTC4	(V)	(V)	(%)	(g)	(g)	(%)	
2408220:B09	16,327	16,309	0,11	1248,54	1248,44	0,008	PASS
2408220:B10	16,326	16,312	0,09	1249,84	1249,74	0,008	PASS
2408220:B11	16,324	16,310	0,09	1247,69	1247,61	0,006	PASS
2408220:B12	16,320	16,301	0,12	1244,96	1244,88	0,006	PASS
2408220:B13	16,290	16,281	0,06	1252,22	1252,19	0,002	PASS
2408220:B14	16,280	16,275	0,03	1251,13	1251,15	-0,002	PASS
2408220:B15	16,286	16,277	0,06	1249,34	1249,27	0,006	PASS
2408220:B16	16,298	16,280	0,11	1247,91	1247,82	0,007	PASS

Acceptance criteria:

- No leakage (NL)
- No venting (NV)
- No disassembly (ND)
- No rupture (NR)
- No fire (NF)
- OCV drop < 10 %

5.2 Test T.2: Thermal test

Purpose

This test assesses cell and battery seal integrity and internal electrical connections. The test is conducted using rapid and extreme temperature changes.

Procedure

Test cells and batteries are to be stored for at least six hours at a test temperature equal to 72 ± 2 °C, followed by storage for at least six hours at a test temperature equal to -40 ± 2 °C. The maximum time interval between test temperature extremes is 30 minutes. This procedure is to be repeated until 10 total cycles are complete, after which all test cells and batteries are to be stored for 24 hours at ambient temperature (20 ± 5 °C). For large cells and batteries, the duration of exposure to the test temperature extremes should be at least 12 hours.

Requirement

Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.

Table 5.2 Test T.2: Thermal test

Sample number	OCV			Weight			Result
	Before test	After test	Change	Before test	After test	Mass loss	
4S3P / US18650VTC4	(V)	(V)	(%)	(g)	(g)	(%)	
2408220:B09	16,286	16,190	0,59	1248,44	1247,88	0,045	PASS
2408220:B10	16,289	16,190	0,61	1249,74	1249,19	0,044	PASS
2408220:B11	16,287	16,190	0,60	1247,61	1247,13	0,038	PASS
2408220:B12	16,278	16,190	0,54	1244,88	1244,36	0,042	PASS
2408220:B13	16,266	16,190	0,47	1252,19	1251,73	0,037	PASS
2408220:B14	16,260	16,170	0,55	1251,15	1250,67	0,038	PASS
2408220:B15	16,262	16,180	0,50	1249,27	1248,83	0,035	PASS
2408220:B16	16,265	16,180	0,52	1247,82	1247,33	0,039	PASS

Acceptance criteria:

- No leakage (NL)
- No venting (NV)
- No disassembly (ND)
- No rupture (NR)
- No fire (NF)
- OCV drop < 10 %

5.3 Test T.3: Vibration

Purpose

This test simulates vibration during transport.

Test procedure

Cells and batteries are firmly secured to the platform of the vibration machine without distorting the cells in such a manner as to faithfully transmit the vibration. The vibration shall be a sinusoidal waveform with a logarithmic sweep between 7 Hz and 200 Hz and back to 7 Hz traversed in 15 minutes. This cycle shall be repeated 12 times for a total of 3 hours for each of three mutually perpendicular mounting positions of the cell. One of the directions of vibration must be perpendicular to the terminal face.

The logarithmic frequency sweep shall differ for cells and batteries with a gross mass of not more than 12 kg (cells and small batteries), and for batteries with a gross mass of more than 12 kg (large batteries). For large batteries: from 7 Hz a peak acceleration of 1 g_n is maintained until 18 Hz is reached. The amplitude is then maintained at 0.8 mm (1,6 mm total excursion) and the frequency increases until a peak acceleration of 2 g_n occurs (approximately 25 Hz). A peak acceleration of 2 g_n is then maintained until the frequency is increased to 200 Hz.

Requirement

Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire during the test and after the test and if the open circuit voltage of each test cell or battery directly after testing in its third perpendicular mounting position is not less than 90% of its voltage immediately prior to this procedure.

Table 5.3 Test T.3: Vibration

Sample number	OCV			Weight			Result
	Before test	After test	Change	Before test	After test	Mass loss	
4S3P / US18650VTC4	(V)	(V)	(%)	(g)	(g)	(%)	
2408220:B09	16,181	16,181	0,00	1247,88	1247,97	-0,007	PASS
2408220:B10	16,182	16,181	0,01	1249,19	1249,27	-0,006	PASS
2408220:B11	16,182	16,182	0,00	1247,13	1247,22	-0,007	PASS
2408220:B12	16,179	16,179	0,00	1244,36	1244,43	-0,006	PASS
2408220:B13	16,180	16,179	0,01	1251,73	1251,80	-0,006	PASS
2408220:B14	16,163	16,162	0,01	1250,67	1250,72	-0,004	PASS
2408220:B15	16,172	16,171	0,01	1248,83	1248,94	-0,009	PASS
2408220:B16	16,169	16,168	0,01	1247,33	1247,43	-0,008	PASS

Acceptance criteria:

- No leakage (NL)
- No venting (NV)
- No disassembly (ND)
- No rupture (NR)
- No fire (NF)
- OCV drop < 10 %

5.4 Test T.4: Shock

Purpose

This test assesses the robustness of cells and batteries against cumulative shocks.

Test procedure

Test cells and batteries shall be secured to the testing machine by means of a rigid mount which will support all mounting surfaces of each test battery. Each cell shall be subjected to a half-sine shock of peak acceleration of 150 g_n and pulse duration of 6 milliseconds. Alternatively, large cells may be subjected to a half-sine shock of peak acceleration of 50 g_n and a pulse duration of 11 milliseconds. Each battery shall be subjected to a half-sine shock of peak acceleration depending on the mass of the battery. The pulse duration shall be 6 milliseconds for small batteries and 11 milliseconds for large batteries.

The peak acceleration is calculated as below.

Acceleration (g_n) = $\sqrt{100850/\text{mass}}$ → >> 150 g

Each cell or battery is subjected to three shocks in the positive direction followed by three shocks in the negative direction of each of three mutually perpendicular mounting positions of the cell for a total of 18 shocks.

Requirement

Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.

Table 5.4 Test T.4: Shock

Sample number	OCV			Weight			Result
	Before test	After test	Change	Before test	After test	Mass loss	
4S3P / US18650VTC4	(V)	(V)	(%)	(g)	(g)	(%)	
2408220:B09	16,155	16,154	0,01	1247,97	1248,10	-0,01	PASS
2408220:B10	16,153	16,153	0,00	1249,27	1249,38	-0,01	PASS
2408220:B11	16,150	16,150	0,00	1247,22	1247,34	-0,01	PASS
2408220:B12	16,143	16,143	0,00	1244,43	1244,54	-0,01	PASS
2408220:B13	16,149	16,149	0,00	1251,80	1251,94	-0,01	PASS
2408220:B14	16,135	16,135	0,00	1250,72	1250,85	-0,01	PASS
2408220:B15	16,151	16,150	0,01	1248,94	1248,99	0,00	PASS
2408220:B16	16,141	16,141	0,00	1247,43	1247,57	-0,01	PASS

Acceptance criteria:

- No leakage (NL)
- No venting (NV)
- No disassembly (ND)
- No rupture (NR)
- No fire (NF)
- OCV drop < 10 %

5.5 Test T.5: External short circuit

Purpose

This test simulates an external short circuit.

Test procedure

The cell or battery to be tested shall be heated for a period of time necessary to reach a homogeneous stabilized temperature of 57 ± 4 °C, measured on the external case. This period of time depends on the size and design of the cell or battery and should be assessed and documented. If this assessment is not feasible, the exposure time shall be at least 6 hours for small cells and small batteries, and 12 hours for large cells and large batteries. Then the cell or battery at 57 ± 4 °C shall be subjected to one short circuit condition with a total external resistance of less than 0,1 ohm.

This short circuit condition is continued for at least one hour after the cell or battery external case temperature returned to 57 ± 4 °C, or in the case of large batteries, has decreased by half of the maximum temperature increase observed during the test and remains below that value.

The short circuit and cooling down phases shall be conducted at least at ambient temperature.

Requirement

Cells and batteries meet this requirement if their external temperatures do not exceed 170 °C and there is no disassembly, no rupture, and no fire during the test and within six hours after the test.

Table 5.5 Test T.5: External short circuit

Sample number	OCV at start	Maximum temperatures		Result
		During test	Observation after test	
4S3P / US18650VTC4	(V)	(°C)	(°C)	
2408220:B09	16,15	56,0	< 170	PASS
2408220:B10	16,15	56,9	< 170	PASS
2408220:B11	16,15	56,8	< 170	PASS
2408220:B12	16,14	56,7	< 170	PASS
2408220:B13	16,14	55,5	< 170	PASS
2408220:B14	16,13	56,6	< 170	PASS
2408220:B15	16,17	56,8	< 170	PASS
2408220:B16	16,14	56,7	< 170	PASS

Acceptance criteria:

- No disassembly (ND), No rupture (NR), No fire (NF) within 6 h
- $T_{\max} = 170^{\circ}\text{C}$

5.6 Test T.7: Overcharge

Purpose

This test evaluates the ability of a rechargeable battery or a single cell rechargeable battery to withstand an overcharge condition.

Test procedure

The charge current shall be twice the manufacturer's recommended maximum continuous charge current. The minimum voltage of the test shall be as follows:

- when the manufacturer's recommended charge voltage is not more than 18 V, the minimum voltage of the test shall be the lesser of two times the maximum charge voltage of the battery or 2 V.
- when the manufacturer's recommended charge voltage is more than 18 V, the minimum voltage of the test shall be 1,2 times the maximum charge voltage.

The test shall be conducted at ambient temperature. The duration of the test shall be 24 hours.

Requirement

Rechargeable batteries meet this requirement if there is no disassembly and no fire during the test and within seven days after the test.

Table 5.6 Test T.7: Overcharge

Sample number					
4S3P / US18650VTC4	OCV at start (V)	Max temp (°C)	Result 24h	Result 7d	Result
2408220:B09	16,29	22,6	PASS	PASS	PASS
2408220:B10	16,30	22,7	PASS	PASS	PASS
2408220:B11	16,30	22,8	PASS	PASS	PASS
2408220:B12	16,29	22,5	PASS	PASS	PASS
2408220:B13	16,30	22,3	PASS	PASS	PASS
2408220:B14	16,30	22,4	PASS	PASS	PASS
2408220:B15	16,30	22,7	PASS	PASS	PASS
2408220:B16	16,30	22,5	PASS	PASS	PASS

Acceptance criteria:

- No disassembly (ND), No fire (NF) within 7 d

APPENDIX A

PHOTOS AND DIAGRAMS



Picture 1: 4S3P / 18650VTC4

	Blueye Standard Battery Rechargeable Li-Ion / 4S3P / US18650VTC4 Blueye Robotics, Transittgata 10 7042 Trondheim, Norway Made in Norway		 	Nom. voltage: 14.4 V Rated capacity: 6.0 Ah Rated energy: 86.4 Wh Max. discharge: 25 A Max. charge: 5 A SN: SCBYWW0001
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Picture 2: Marking label



Picture 3: 4S3P / 18650VTC4



Picture 4: 4S3P / 18650VTC4



Picture 5: Test T.1 Altitude simulation

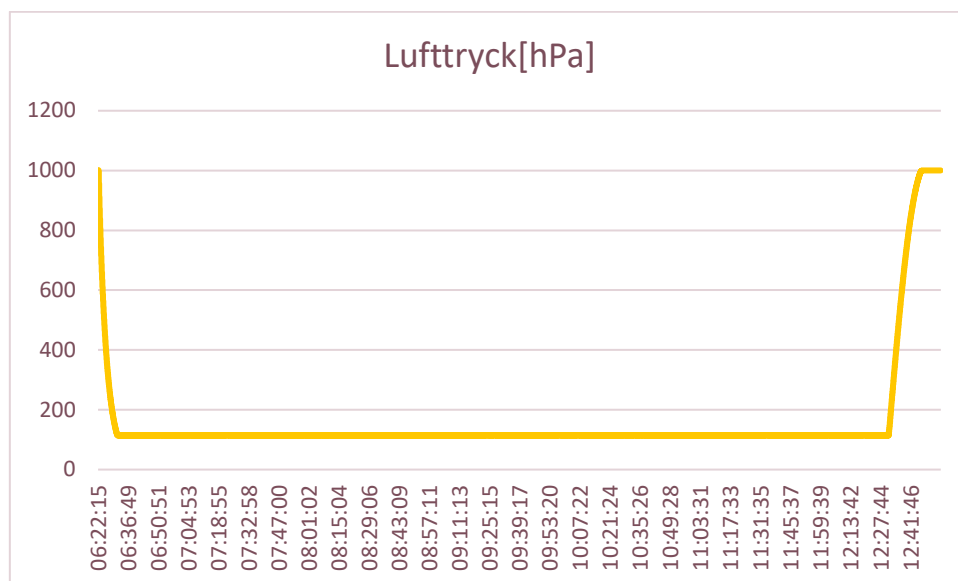


Diagram 1: Test T.1: Under-pressure versus atmosphere



Picture 6: Test T.2 Thermal test

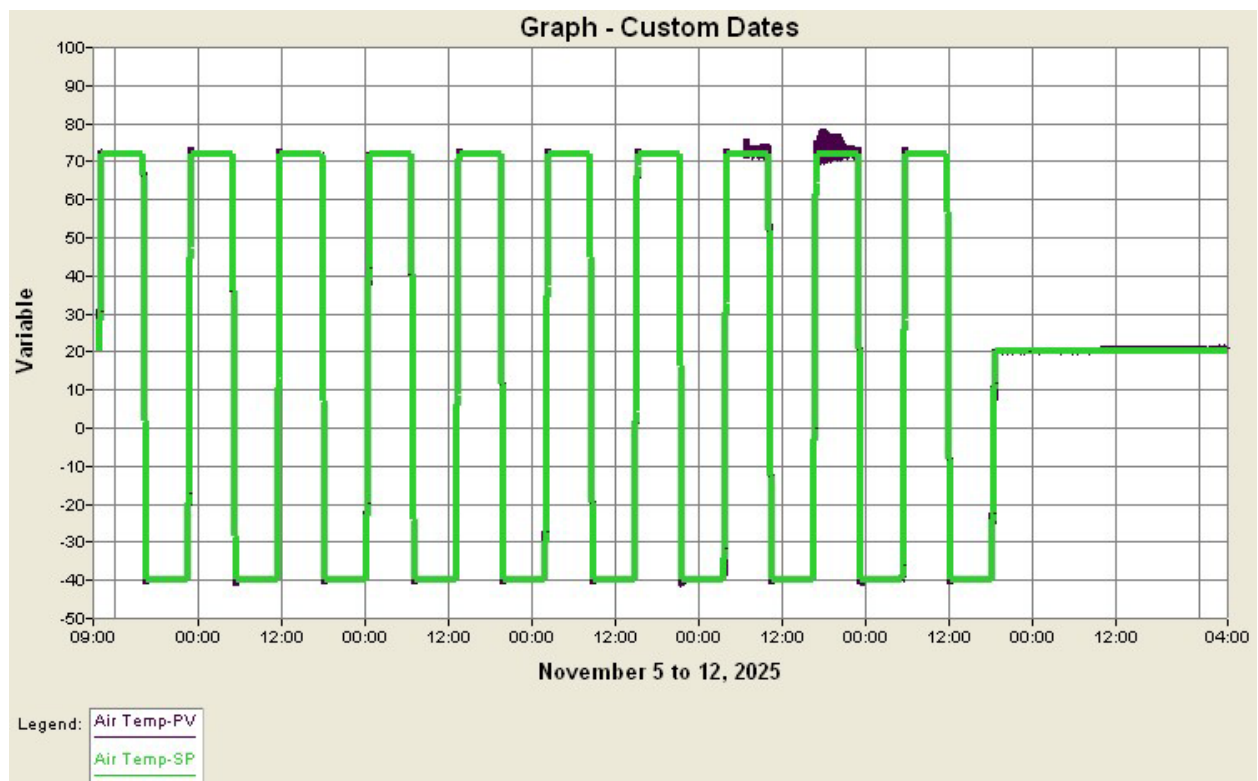
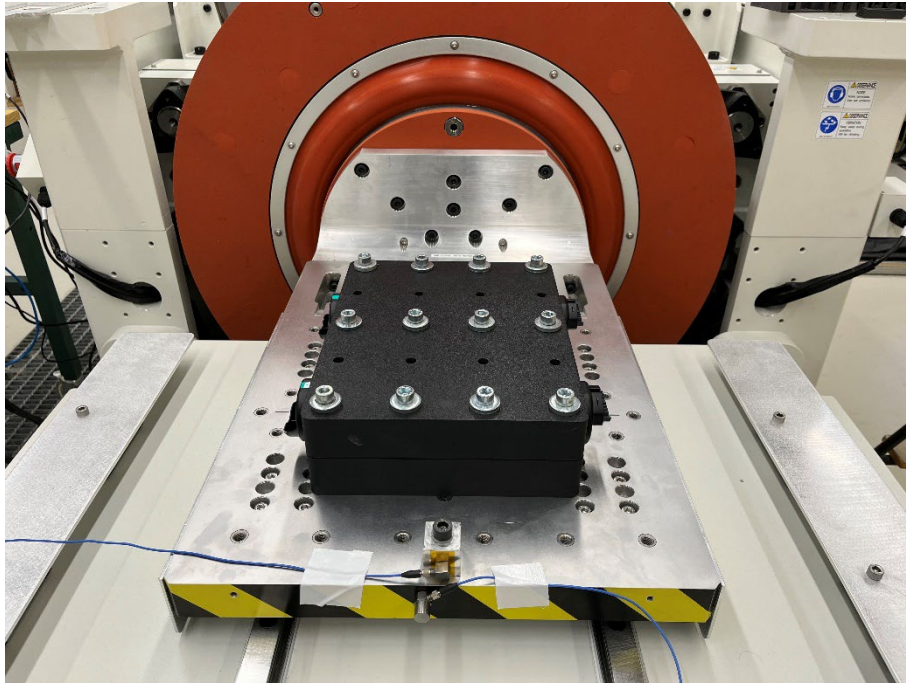
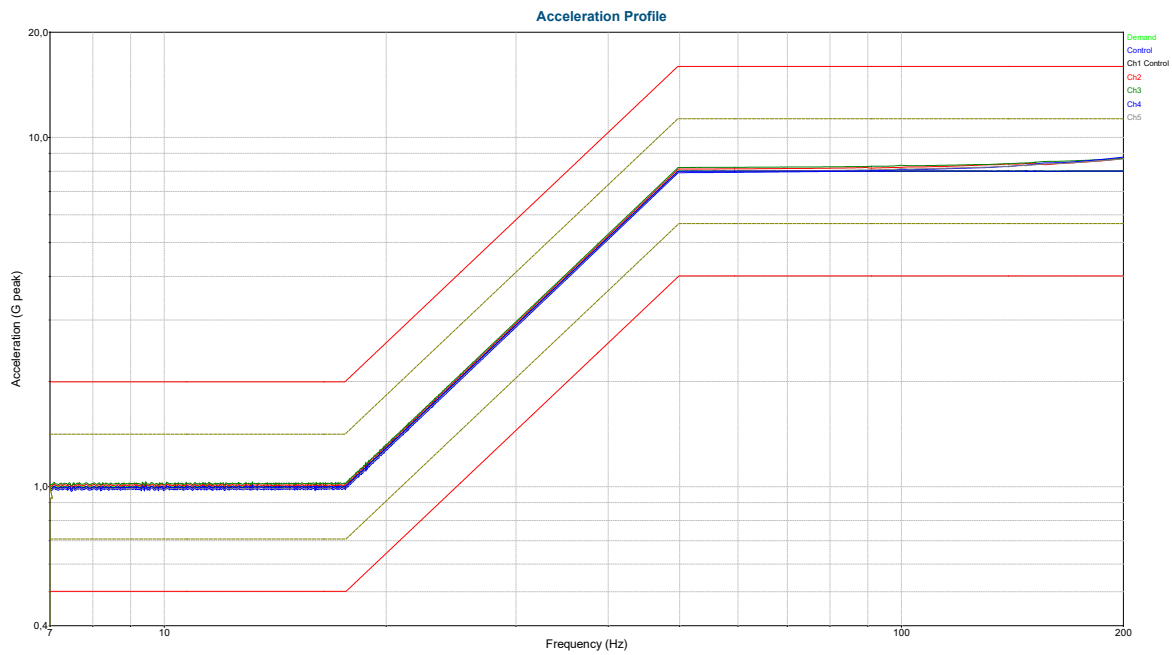


Diagram 2: Test T.2 Thermal test 10 cycles, 72°C to -40°C



Picture 7: Test T.3 Vibration / Test T.4 Shock



Profile

Start Freq.	Amplitude	End Freq.	Amplitude
7 Hz	1 G peak	17,621.2 Hz	1 G peak
17,621.2 Hz	1,6 mm pk-pk	49,840.3 Hz	1,6 mm pk-pk
49,840.3 Hz	8 G peak	200 Hz	8 G peak

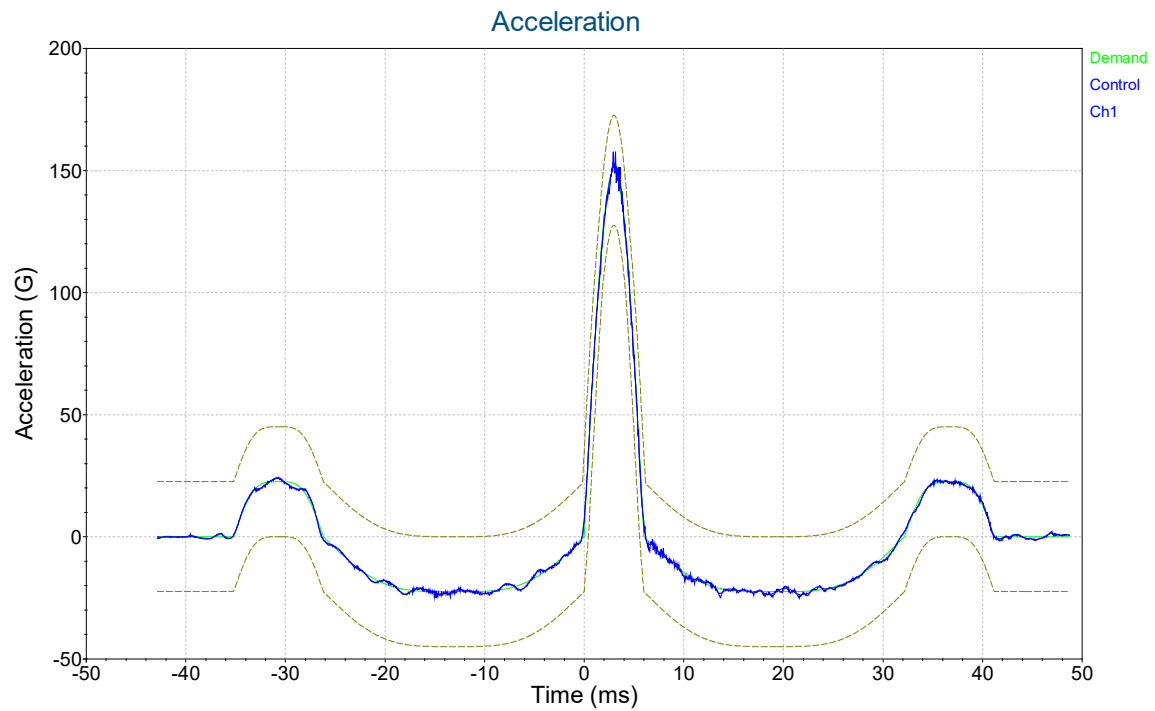
Test Level Schedule

	Duration	Level
1)	24 sweeps	100 % (Sweep up from 7 Hz)

** Test started nov 19, 2025 11:15:03, running for 3:00:09

** Current level: 1, running at 100 %, 24 of 24 sweeps complete

Diagram 3: Test T.3 Vibration profile – 7-200-7 Hz



Pulse specification

6 ms Half Sine Pulse with amplitude 150 G peak

Pulse Orientation: Positive

Input Filtering: Antialias

Pre-pulse amplitude: 15 % of the peak acceleration

Post-pulse amplitude: 15 % of the peak acceleration

Standard Limits

Control channels: Ch1

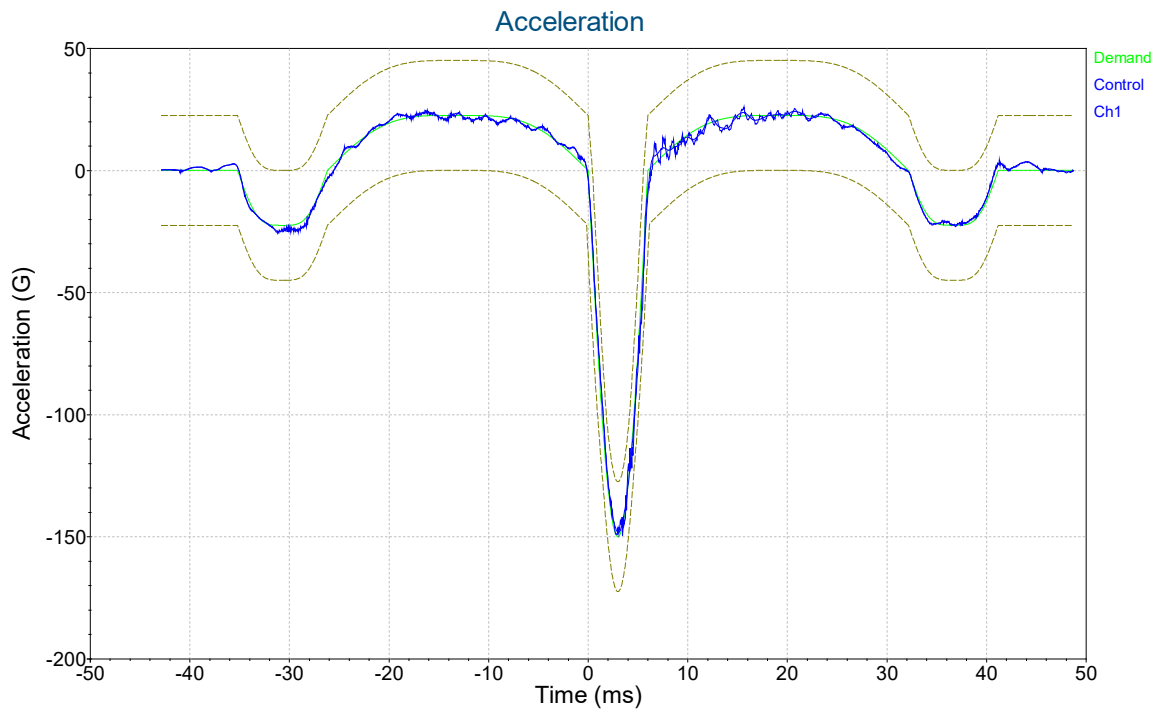
Test level schedule:

	Duration	Level
1)	3	100 %
2)	Wait for operator	
3)	3	* 100 %

** Test started Nov 25, 2025 15:28:03, running for 0:01:13

** Current level: 2, running at Wait for operator for 3 of 3 pulses

Diagram 4: Test T.4 Shock profile - 150 g 6 ms 3 x positive



Test level schedule:

	Duration	Level
1)	3	100 %
2)	Wait for operator	
3)	3	* 100 %

** Test started Nov 25, 2025 15:28:03, running for 0:03:36

** Current level: 3, running at 100 % for 3 of 3 pulses

Diagram 5: Test T.4 Shock profile - 150 g 6 ms 3 x negative

APPENDIX B

UN 38.3 LITHIUM BATTERY TEST SUMMARY

Cell, Battery or Product Model Number

Item number: 4S3P / US18650VTC4

Item name: Blueye Standard Battery

Cell, Battery or product manufacturer's contact information

Name: Schive AS

Address: Gamle Borgenvei 3, Asker 1383, Norway

Telephone: +47 66 76 05 00 E-mail: post@schive.no

Website: www.schive.no

Test Laboratory

Name: Intertek Semko AB

Address: Torshamnsgatan 43, Box 1103, SE-164 22 Kista, Sweden

Telephone: +46 8 75 00 00 E-mail: info-sweden@intertek.com

Website: www.intertek.se

Cell or Battery Description

Cell or Battery: 4 cells in series and 3 in parallel, 4S3P
Murata US18650VTC4

Physical Description (dimensions, appearance):

Cell or Battery Type:

Rechargeable Li-Ion battery 14,4 V 6,0 Ah

Watt-hour rating or Lithium Content: 86,4 Wh

Complete Cell or Battery Weight: 1265 g



Diam. 61,4 mm, Length 312 mm

Unique Test Report ID Number: 2408220STO-202

Date of Test Report: 2025-12-18

List of Test Completed:

Yes	No		Pass	Fail	Additional comments (or indicate compliance with other standards):
X		Test T.1: Altitude simulation	X		
X		Test T.2: Thermal test	X		
X		Test T.3: Vibration	X		Reference to assembled battery testing requirements, if applicable (i.e. 38.3.3 (f) and 38.3.3 (g)):
X		Test T.4: Shock	X		*) UN38.3 cell report: see doc. QA-21006, dated 2021-02-24
X		Test T.5: External short circuit	X		
X		Test T.6: Impact/crush	X*)		Reference to revised edition of the Manual of Tests and Criteria used and to amendments thereto, if any:
X		Test T.7: Overcharge	X		ST/SG/AC.10/11/Rev.8 2023
X		Test T.8: Forced discharge	X*)		



Date: 2025-12-18

Johny Jonsson, Technical Manager