



UN TEST REPORT

Test Summary

Report Number.:	SDI-UN-240910-01
Date of issue.....:	2024.09.10
Test period	2024.07.26 ~ 2024.07.27
Testing Laboratory.....	Samsung SDI Co., Ltd
Address	467, Beonyeong-ro, Seobuk-gu, Cheonan-si, Chungcheongnam-do, Korea
Contact.....	+82-41-560-3114 / http://samsungsdi.co.kr/ lian55.kim@samsung.com
Manufacturer's name	Samsung SDI Co., Ltd
Address	467, Beonyeong-ro, Seobuk-gu, Cheonan-si, Chungcheongnam-do, Korea
Contact.....	+82-41-560-3114 / http://samsungsdi.co.kr/ lian55.kim@samsung.com
Test Standard	Manual of Tests and Criteria, section 38.3 Eighth revised edition
Physical description.....	Mobile phone battery
Assembled Battery Testing Requirements.....	Not Applicable
Description.....	Lithium ion battery (1 S - 1 P)
Model Name	EB-BS931ABY
Ratings	3.90V 3885 mAh (15.16 Wh)
Mass	49.98 ± 1.499

Test Result

No.	Test item	Result	Remark
T-1	Altitude	PASS	T1~6, T8 refer to component cell test results Cell Model name : CU3893F104
T-2	Thermal Cycling	PASS	
T-3	Vibration	PASS	
T-4	Shock	PASS	
T-5	External Short Circuit	PASS	
T-6	Impact / Crush	PASS	
T-7	Overcharge	PASS	
T-8	Forced Discharge	PASS	

	Name	position	Signature	Date
Reported by	PARK DAE JUN	Engineer		2024.09.10
Approved by	Jung Min kyu	Principal Engineer		2024.09.10

T7	OVERCHARGE	Results
Requirements	Rechargeable batteries meet this requirement if there is no disassembly and no fire during the test and within seven days after the test.	<input checked="" type="checkbox"/> No disassembly, <input checked="" type="checkbox"/> no rupture, <input checked="" type="checkbox"/> no fire during the test and within seven days after the test. See below table

Sample No.	Sample Condition	Voltage Before Test(V)	Test result
T7-1	A	4.430	O
T7-2	A	4.429	O
T7-3	A	4.430	O
T7-4	A	4.431	O
T7-5	B	4.428	O
T7-6	B	4.427	O
T7-7	B	4.431	O
T7-8	B	4.431	O

Supplementary Information:

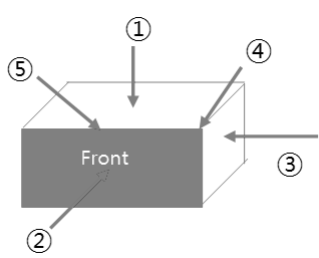
Sample Condition A : at first cycle, in fully charged states(4 pcs)

Sample Condition B : after 25th cycles ending in fully charged states(4 pcs)



Test result : O-No Disassembly, No Fire / D-Disassembly / F-Fire

Test Conditions

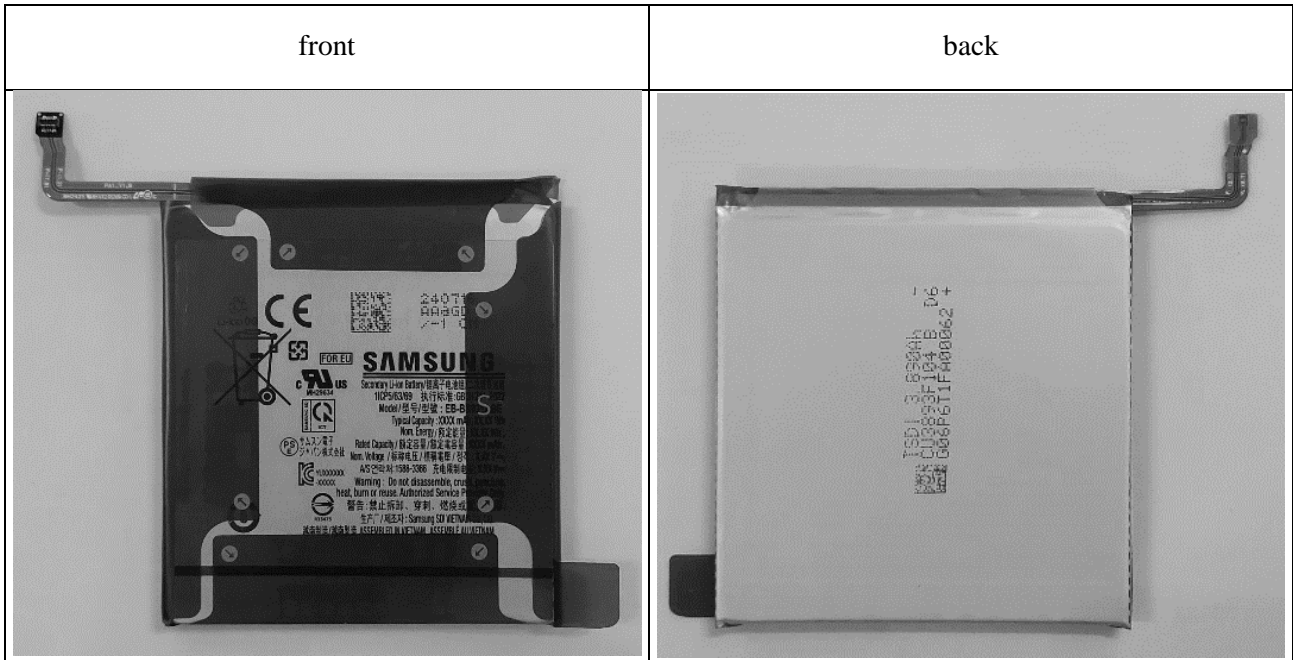
Charge voltage : 9.0 V, Charge current : 10.102 A, Test time : 24 Hr

P1	Package Drop Test	Results
Procedure	<p>IATA Dangerous Goods Regulations Each package must be capable of withstanding a 1.2m drop test in any orientation</p> 	<p><input checked="" type="checkbox"/> Without damage to cells or batteries contained therein, <input checked="" type="checkbox"/> Without shifting of the contents so as to allow battery to battery(or Cell to cell) contact. <input checked="" type="checkbox"/> Without release of contents</p> <p>See below photo</p>

Battery Qty per box	Battery weight (kg)	Net weight per box (kg)
138	0.04998	6.89

	Before Test	After Test
Weight (kg)	9.625	9.625
Test result		

Sample Photo



- End of Report -