

UN38.3 Test Report

UN38.3 测试报告

样品名称 可充电电池组 Rechargeable Li-ion Battery Pack
ASUS, C41N2109, 15.52 V, 90 Wh, Capacity 5800 mAh (Typical)/
Sample name: 5630 mAh (Rated), 88 Wh/ COSMX / 314 (g)

委托单位 新普科技股份有限公司
SIMPLO TECHNOLOGY CO., LTD.
Consignor:

报告版本: V01
Version of Test Report

批准 Approved By	审核 Checked By	编制 Prepared By
经理/报告签署人 Manager/ Authorized Signatory	报告签署人 Authorized Signatory	测试工程师 Test Engineer
		

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Form NO. W11-002-B08

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样品名称 Sample name	可充电电池组 Rechargeable Li-ion Battery Pack ASUS, C41N2109, 15.52 V, 90 Wh, Capacity 5800 mAh (Typical)/ 5630 mAh (Rated), 88 Wh/ COSMX / 314 (g)		
委托单位 Consignor	新普科技股份有限公司 SIMPLO TECHNOLOGY CO., LTD.		
生产单位 Manufacturer	新普科技（重庆）有限公司 SIMPLO TECHNOLOGY (CHONGQING) INC		
检测方法/判定标准 Test method/Criterion	联合国《标准与试验手册》ST/SG/AC.10/11/Rev8, section 38.3 UN Manual of the Tests and Criteria, Eighth revised edition, section 38.3		
样品外观 Appearance	黑色塑料外壳。 Black Plastic film shell.		
样品接受日期 Accepted Date	Cell 2025/07/30	检测起迄日期 Test Date	Cell Test Duration: 2025/07/30~2025/08/12
	Pack 2025/08/11		Pack Test Duration: 2025/08/11~2025/08/27
检测项目 Test Items	高度模拟；热测试；振动；冲击；外短路；挤压；过充电；强制放电； Altitude Simulation；Thermal Test；Vibration；Shock；External Short Circuit； Crush；Overcharge；Forced Discharge；		
检测结论 Conclusion	经检测，该样品试验符合联合国《标准与试验手册》ST/SG/AC.10/11/Rev8, section 38.3 标准要求。 The test results complied with the requirements of UN “Manual of the Tests and Criteria, Eighth revised edition.” , section 38.3		
备注 Remarks			

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报告版本清单 List of report version

版本 Version	修改内容 Modify content	生效日 Issue date
01	First publish	2025/08/28
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序号 No.	检测项目 Test items	标准要求或标准条款号 Standard requirement or the clause number of the standard	检测结果 Test results	本项结论 Conclusion	备注 Remarks
1	高度模拟 Altitude Simulation	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev8, section 38.3 试验 T1 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev8, section 38.3 Test T1	见附表 1 See Appendix 1	合格 Pass	
2	热测试 Thermal Test	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev8, section 38.3 试验 T2 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev8, section 38.3 Test T2	见附表 2 See Appendix 2	合格 Pass	
3	振动 Vibration	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev8, section 38.3 试验 T3 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev8, section 38.3 Test T3	见附表 3 See Appendix 3	合格 Pass	
4	冲击 Shock	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev8, section 38.3 试验 T4 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev8, section 38.3 Test T4	见附表 4 See Appendix 4	合格 Pass	

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5	外短路 External Short Circuit	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev8, section 38.3 試驗 T5 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev8, section 38.3 Test T5	见附表 5 See Appendix 5	合格 Pass	
6-1	撞击 Impact	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev8, section 38.3 試驗 T6 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev8, section 38.3 Test T6	见附表 6-1 See Appendix 6-1	N/A	
6-2	挤压 Crush	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev8, section 38.3 試驗 T6 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev8, section 38.3 Test T6	见附表 6-2 See Appendix 6-2	合格 Pass	
7	过充电 Overcharge	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev8, section 38.3 試驗 T7 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev8, section 38.3 Test T7	见附表 7 See Appendix 7	合格 Pass	
8	强制放电 Forced Discharge	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev8, section 38.3 試驗 T8 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev8, section 38.3 Test T8	见附表 8 See Appendix 8	合格 Pass	
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检测环境条件 Test environment condition	环境温度：20.9 °C~26.9 °C；环境湿度：40 %~44 %。 Ambient temperature：20.9 °C~26.9 °C；Ambient humidity：40 %~44 %。
报告声明 Report statement	测试结果包含符合基于 ST/SG/AC.10/11/Rev8, section 38.3 标准的决策规则的声明。 The test results contain statement of conformity with the decision rules which are based on the standards ST/SG/AC.10/11/Rev8, section 38.3.
	本试验结果基于标准未规定、客户无需求，不对测量不确定度进行评定。 This test result does not evaluate the measurement uncertainty based on the fact that the standard is not specified and the customer has no demand.
	本报告中呈现的测试结果仅适用收取的样品。 The test results apply to the samples as received. 实验室对报告中的所有信息负责,客户提供的信息除外。 The laboratory shall be responsible for all the information provided in the report, except when information is provided by the customer.

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附表 1 Appendix 1

序号 No.	1	检测项目 Test items			高度模拟 Altitude Simulation			
试样 编号 Sample No.	样品状态 Sample Status	开路电压 OCV/V		剩余 电压 Residual OCV	质量 Mass/g		质量 损失 Mass loss	其他现象 Other Event
		试验前 Before	试验后 After		试验前 Before	试验后 After		
01	1 Cycle 完全充电 1 Cycle Fully charged	17.286	17.267	99.89%	313.161	313.156	0.00%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	17.268	17.261	99.96%	312.526	312.511	0.00%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	17.266	17.263	99.98%	313.026	313.010	0.01%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	17.266	17.256	99.94%	313.096	313.090	0.00%	O
05	25 Cycles 完全充电 25 Cycles Fully charged	17.259	17.253	99.97%	313.008	313.001	0.00%	O
06	25 Cycles 完全充电 25 Cycles Fully charged	17.283	17.270	99.92%	312.830	312.809	0.01%	O
07	25 Cycles 完全充电 25 Cycles Fully charged	17.294	17.276	99.90%	312.969	312.949	0.01%	O
08	25 Cycles 完全充电 25 Cycles Fully charged	17.291	17.276	99.91%	312.465	312.445	0.01%	O
以下 空白	Blank below							

注：L-泄漏, V-泄气, D-解体, R-破裂, F-起火, O-无泄漏、无泄气、无解体、无破裂且无起火。

Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire, O-No leakage, no venting, no disassembly, no rupture and no fire.

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附表 2 Appendix 2

序号 No.	2	检测项目 Test items			热测试 Thermal Test			
试样 编号 Sample No.	样品状态 Sample Status	开路电压 OCV/V		剩余 电压 Residual OCV	质量 Mass/g		质量 损失 Mass loss	其他现象 Other Event
		试验前 Before	试验后 After		试验前 Before	试验后 After		
01	1 Cycle 完全充电 1 Cycle Fully charged	17.267	16.894	97.84%	313.156	313.089	0.02%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	17.261	16.885	97.82%	312.511	312.446	0.02%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	17.263	16.883	97.80%	313.010	312.946	0.02%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	17.256	16.886	97.86%	313.090	313.024	0.02%	O
05	25 Cycles 完全充电 25 Cycles Fully charged	17.253	16.890	97.90%	313.001	312.933	0.02%	O
06	25 Cycles 完全充电 25 Cycles Fully charged	17.270	16.911	97.92%	312.809	312.750	0.02%	O
07	25 Cycles 完全充电 25 Cycles Fully charged	17.276	16.920	97.94%	312.949	312.885	0.02%	O
08	25 Cycles 完全充电 25 Cycles Fully charged	17.276	16.917	97.92%	312.445	312.383	0.02%	O
以下 空白	Blank below							

注：L-泄漏, V-泄气, D-解体, R-破裂, F-起火, O-无泄漏、无泄气、无解体、无破裂且无起火。

Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire, O-No leakage, no venting, no disassembly, no rupture and no fire.

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附表 3 Appendix 3

序号 No.	3	检测项目 Test items			振动 Vibration			
试样 编号 Sample No.	样品状态 Sample Status	开路电压 OCV/V		剩余 电压 Residual OCV	质量 Mass/g		质量 损失 Mass loss	其他现象 Other Event
		试验前 Before	试验后 After		试验前 Before	试验后 After		
01	1 Cycle 完全充电 1 Cycle Fully charged	16.894	16.865	99.83%	313.089	313.095	0.00%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	16.885	16.838	99.72%	312.446	312.454	0.00%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	16.883	16.842	99.76%	312.946	312.955	0.00%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	16.886	16.835	99.70%	313.024	313.033	0.00%	O
05	25 Cycles 完全充电 25 Cycles Fully charged	16.890	16.834	99.67%	312.933	312.941	0.00%	O
06	25 Cycles 完全充电 25 Cycles Fully charged	16.911	16.870	99.76%	312.750	312.760	0.00%	O
07	25 Cycles 完全充电 25 Cycles Fully charged	16.920	16.876	99.74%	312.885	312.894	0.00%	O
08	25 Cycles 完全充电 25 Cycles Fully charged	16.917	16.877	99.76%	312.383	312.390	0.00%	O
以下 空白	Blank below							

注：L-泄漏, V-泄气, D-解体, R-破裂, F-起火, O-无泄漏、无泄气、无解体、无破裂且无起火。

Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire, O-No leakage, no venting, no disassembly, no rupture and no fire.

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附表 4 Appendix 4

序号 No.	4	检测项目 Test items			冲击 Shock			
试样 编号 Sample No.	样品状态 Sample Status	开路电压 OCV/V		剩余 电压 Residual OCV	质量 Mass/g		质量 损失 Mass loss	其他现象 Other Event
		试验前 Before	试验后 After		试验前 Before	试验后 After		
01	1 Cycle 完全充电 1 Cycle Fully charged	16.865	16.862	99.98%	313.095	313.101	0.00%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	16.838	16.835	99.98%	312.454	312.460	0.00%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	16.842	16.838	99.98%	312.955	312.962	0.00%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	16.835	16.832	99.98%	313.033	313.040	0.00%	O
05	25 Cycles 完全充电 25 Cycles Fully charged	16.834	16.829	99.97%	312.941	312.948	0.00%	O
06	25 Cycles 完全充电 25 Cycles Fully charged	16.870	16.864	99.96%	312.760	312.768	0.00%	O
07	25 Cycles 完全充电 25 Cycles Fully charged	16.876	16.876	100.00%	312.894	312.901	0.00%	O
08	25 Cycles 完全充电 25 Cycles Fully charged	16.877	16.877	100.00%	312.390	312.397	0.00%	O
以下 空白	Blank below							

注：L-泄漏, V-泄气, D-解体, R-破裂, F-起火, O-无泄漏、无泄气、无解体、无破裂且无起火。

Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire, O-No leakage, no venting, no disassembly, no rupture and no fire.

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附表 5 Appendix 5

序号 No.	5	检测项目 Test items	外短路 External Short Circuit
试样 编号 Sample No.	样品状态 Sample Status	表面最高温度 Max. External Temperature/°C (<170°C)	其他现象 Other Event
01	1 Cycle 完全充电 1 Cycle Fully charged	59.4	O
02	1 Cycle 完全充电 1 Cycle Fully charged	59.5	O
03	1 Cycle 完全充电 1 Cycle Fully charged	59.4	O
04	1 Cycle 完全充电 1 Cycle Fully charged	59.4	O
05	25 Cycles 完全充电 25 Cycles Fully charged	59.3	O
06	25 Cycles 完全充电 25 Cycles Fully charged	59.3	O
07	25 Cycles 完全充电 25 Cycles Fully charged	59.5	O
08	25 Cycles 完全充电 25 Cycles Fully charged	59.2	O
以下 空白	Blank below		
注： D-解体, R-破裂, F-起火, O-无解体、无破裂且无起火 Note: D-Disassembly, R-Rupture, F-Fire, O-No disassembly, no rupture and no fire.			

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附表 6-1 Appendix 6-1

序号 No.	6-1	检测项目 Test items	撞击 Impact
试样编号 Sample No.	样品状态 Sample Status	表面最高温度 Max. External Temperature/°C (<170°C)	其他现象 Other Event
01 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	N/A	N/A
02 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	N/A	N/A
03 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	N/A	N/A
04 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	N/A	N/A
05 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	N/A	N/A
06 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	N/A	N/A
07 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	N/A	N/A
08 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	N/A	N/A
09 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	N/A	N/A
10 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	N/A	N/A
以下 空白	Blank below		
注： D-解体, F-起火, O-无解体且无起火。 Note: D-Disassembly, F-Fire, O-No disassembly and no fire.			

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附表 6-2 Appendix 6-2

序号 No.	6-2	检测项目 Test items	挤压 Crush
试样编号 Sample No.	样品状态 Sample Status	表面最高温度 Max. External Temperature/℃(<170℃)	其他现象 Other Event
01 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	28.3	O
02 C	1Cycle 50% 容量 1 Cycle 50% Capacity	28.9	O
03 C	1Cycle 50% 容量 1 Cycle 50% Capacity	29.4	O
04 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	30.6	O
05 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	30.8	O
06 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	30.8	O
07 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	29.4	O
08 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	30.0	O
09 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	29.7	O
10 C	25 Cycles 50% 容量 25 Cycles 50% Capacity	28.9	O
以下 空白	Blank below		
注： D-解体, F-起火, O-无解体且无起火 Note: D-Disassembly, F-Fire, O-No disassembly and no fire.			

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附表 7 Appendix 7

序号 No.	7	检测项目 Test items	过充电 Overcharge
试样编号 Sample No.	样品状态 Sample Status	其他现象 Other Event	
09	1 Cycle 完全充电 1 Cycle Fully charged	O	
10	1 Cycle 完全充电 1 Cycle Fully charged	O	
11	1 Cycle 完全充电 1 Cycle Fully charged	O	
12	1 Cycle 完全充电 1 Cycle Fully charged	O	
13	25 Cycles 完全充电 25 Cycles Fully charged	O	
14	25 Cycles 完全充电 25 Cycles Fully charged	O	
15	25 Cycles 完全充电 25 Cycles Fully charged	O	
16	25 Cycles 完全充电 25 Cycles Fully charged	O	
以下 空白	Blank below		
注： D-解体, F-起火, O-无解体且无起火 Note: D-Disassembly, F-Fire, O-No disassembly and no fire.			

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附表 8 Appendix 8

序号 No.	8	检测项目 Test items	强制放电 Forced Discharge
试样编号 Sample No.	样品状态 Sample Status	其他现象 Other Event	
11 C	1 Cycle 完全放电 1 Cycle Fully Discharged	O	
12 C	1 Cycle 完全放电 1 Cycle Fully Discharged	O	
13 C	1 Cycle 完全放电 1 Cycle Fully Discharged	O	
14 C	1 Cycle 完全放电 1 Cycle Fully Discharged	O	
15 C	1 Cycle 完全放电 1 Cycle Fully Discharged	O	
16 C	1 Cycle 完全放电 1 Cycle Fully Discharged	O	
17 C	1 Cycle 完全放电 1 Cycle Fully Discharged	O	
18 C	1 Cycle 完全放电 1 Cycle Fully Discharged	O	
19 C	1 Cycle 完全放电 1 Cycle Fully Discharged	O	
20 C	1 Cycle 完全放电 1 Cycle Fully Discharged	O	
21 C	25 Cycles 完全放电 25 Cycles Fully Discharged	O	
22 C	25 Cycles 完全放电 25 Cycles Fully Discharged	O	
23 C	25 Cycles 完全放电 25 Cycles Fully Discharged	O	
24 C	25 Cycles 完全放电 25 Cycles Fully Discharged	O	
25 C	25 Cycles 完全放电 25 Cycles Fully Discharged	O	
26 C	25 Cycles 完全放电 25 Cycles Fully Discharged	O	
27 C	25 Cycles 完全放电 25 Cycles Fully Discharged	O	
28 C	25 Cycles 完全放电 25 Cycles Fully Discharged	O	
29 C	25 Cycles 完全放电 25 Cycles Fully Discharged	O	
30 C	25 Cycles 完全放电 25 Cycles Fully Discharged	O	
以下空白	Blank below		

注： D-解体, F-起火, O-无解体且无起火

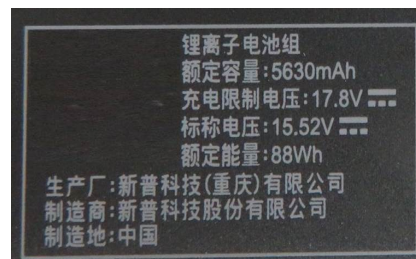
Note: D-Disassembly, F-Fire, O-No disassembly and no fire.

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待测物照片 Sample Pictures:



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仪器清册 Test Equipment List:

 **SIMPLO TECHNOLOGY CO., LTD.**

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TEL: +886-3-5695920; FAX: +886-3-5695931

Revised Date: 2025-08-28

Test Instruments Reference List								
Used	Instrument ID	Instrument Name	Type	Range of use	Manufacturer	Calibration Date_Last	Calibration Date_Next	Remarks
Pretest								
V	ML-761	Learning	715C	0~18 V 0~7 A	SMP	2025/1/14	2026/2/14	
V	ML-762	Learning	715C	0~18 V 0~7 A	SMP	2025/1/2	2026/2/2	
V	ML-763	Learning	715C	0~18 V 0~7 A	SMP	2025/1/14	2026/2/14	
	ML-925	Learning	750C8	20~60 V 0~30 A	SMP	2025/1/2	2026/2/2	EV
V	ML-1139	Learning	L720-191212-D	0~18 V 0~12 A	SMP	2025/1/2	2026/2/2	
	ML-1157	Learning	17020E	200 V, 400 A, 40 Kw	Chroma	2025/5/7	2026/6/7	EV
T.1 Altitude Simulation								
V	ML-522	Altitude	SVT-120	kPa:0~95	HSIN JIANG	2025/5/7	2026/6/7	
V	ML-257	Multimeter	34401A	DCV : 0.1,1,10,100,1000 V; DCI : 0.01,0.1,1,2,3 A	Agilent	2025/1/2	2026/2/2	
V	ML-995	Electronic Balance	UX1020H	0.1~200 gf(TAF) 0.1~1000 gf	SHIMADZU	2025/1/6	2026/2/6	
	ML-1035	Electronic Balance	JWI-700W	0.01~30 kg	JADEVER	2025/5/7	2026/6/7	
	ML-1169	Electronic Balance	JWI-700W	1~60 kg	JADEVER	2025/5/5	2026/6/5	EV
V	ML-1207	Data Logger	LR-8514	15~35 ℃; 30~80 %RH	HIOKI	2025/3/14	2026/4/14	
V	ML-964	Barometric Air Pressure	MP55	750 to 1095 mbar	KIMO	2025/5/14	2026/6/14	
T.2 Thermal Test								
V	ML-789	Thermal Shock	GTST-080-65-AW	T:-40 to 100 ℃	GF	2025/1/2	2026/2/2	
	ML-1242	Temperature Chamber	GCT-1000-60-CP-AR10	T:-60 to 150 ℃	GIANT FORCE	2025/2/13	2026/3/13	EV
V	ML-257	Multimeter	34401A	DCV : 0.1,1,10,100,1000 V; DCI : 0.01,0.1,1,2,3 A	Agilent	2025/1/2	2026/2/2	
V	ML-995	Electronic Balance	UX1020H	0.1~200 gf(TAF) 0.1~1000 gf	SHIMADZU	2025/1/6	2026/2/6	
	ML-1035	Electronic Balance	JWI-700W	0.01~30 kg	JADEVER	2025/5/7	2026/6/7	
	ML-1169	Electronic Balance	JWI-700W	1~60 kg	JADEVER	2025/5/5	2026/6/5	EV
	ML-1164	Data Logger	LR8514	15~35 ℃; 30~80 %RH	HIOKI	2025/3/28	2026/4/28	EV
V	ML-1206	Data Logger	LR-8514	15~35 ℃; 30~80 %RH	HIOKI	2025/3/14	2026/4/14	
T.3 Vibration								
V	ML-233	Vibration	KD-9363-EM-300F2K-30N80	F:2~2000 Hz G:0.2~8 G	King Design	2025/7/15	2026/8/15	
	ML-1161	Vibration	KD-9363-EM5000F2K-76N800	F:2~2000 Hz G:0.2~8 G	King Design	2025/1/20	2026/2/20	EV
V	ML-257	Multimeter	34401A	DCV : 0.1,1,10,100,1000V; DCI : 0.01,0.1,1,2,3 A	Agilent	2025/1/2	2026/2/2	
V	ML-995	Electronic Balance	UX1020H	0.1~200 gf(TAF) 0.1~1000 gf	SHIMADZU	2025/1/6	2026/2/6	
	ML-1035	Electronic Balance	JWI-700W	0.01~30 kg	JADEVER	2025/5/7	2026/6/7	
	ML-1169	Electronic Balance	JWI-700W	1~60 kg	JADEVER	2025/5/5	2026/6/5	EV
	ML-1163	Data Logger	LR8514	15~35 ℃; 30~80 %RH	HIOKI	2025/4/14	2026/5/14	EV
V	ML-1152	Data Logger	LR-8514	15~35 ℃; 30~80 %RH	HIOKI	2025/4/14	2026/5/14	
T.4 Shock								
V	ML-056	Shock	DP-1200-25	G:10~500 G	King Design	2025/7/15	2026/8/15	
	ML-1160	Shock	KingDesign / DP-1200-100	(3~20) ms, (7~150) g	King Design	2025/5/6	2026/6/6	EV
V	ML-257	Multimeter	34401A	DCV : 0.1,1,10,100,1000 V; DCI : 0.01,0.1,1,2,3 A	Agilent	2025/1/2	2026/2/2	
V	ML-995	Electronic Balance	UX1020H	0.1~200 gf(TAF) 0.1~1000 gf	SHIMADZU	2025/1/6	2026/2/6	
	ML-1035	Electronic Balance	JWI-700W	0.01~30 kg	JADEVER	2025/5/7	2026/6/7	
	ML-1169	Electronic Balance	JWI-700W	1~60 kg	JADEVER	2025/5/5	2026/6/5	EV
	ML-1163	Data Logger	LR8514	15~35 ℃; 30~80 %RH	HIOKI	2025/4/14	2026/5/14	EV
V	ML-1206	Data Logger	LR-8514	15~35 ℃; 30~80 %RH	HIOKI	2025/3/14	2026/4/14	
T.5 External Short Circuit								
V	ML-894	Battery Hitester	BT3562	10 mΩ ~ 3 kΩ 0-59 V	HIOKI	2025/4/7	2026/5/7	
V	ML-257	Multimeter	34401A	DCV : 0.1,1,10,100,1000 V; DCI : 0.01,0.1,1,2,3 A	Agilent	2025/1/2	2026/2/2	
	ML-459	Data Acquisition	MX100-E-1D	1~100 Vdc, 0 to 200 ℃	Yokogawa	2025/6/18	2026/7/18	
	ML-460	Data Acquisition	MX100-E-1D	1~100 Vdc, 0 to 200 ℃	Yokogawa	2025/6/18	2026/7/18	
	ML-1153	Data Acquisition	LR-8450	1~100 Vdc, 0 to 500 ℃	HIOKI	2025/4/11	2026/5/11	
V	ML-339	Data Acquisition	MX100-E-1D	1~100 Vdc, 0 to 200 ℃	Yokogawa	2025/4/11	2026/5/11	
	ML-1159	Chamber	GTH-1000-60-CP-AR10	T:-60 to 100 ℃	GF	2025/2/20	2026/3/20	EV

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Test Instruments Reference List								
Used	Instrument ID	Instrument Name	Type	Range of use	Manufacturer	Calibration Date Last	Calibration Date Next	Remarks
	ML-1164	Data Logger	LR8514	15~35 °C; 30~80 %RH	HIOKI	2025/3/28	2026/4/28	EV
	ML-521	Oven	9031	30~70 °C	YEOW LONG	2025/3/7	2026/4/7	
V	ML-1023	Oven	GCT-125-20-TR-SP	-20~100 °C	GF	2025/7/16	2026/8/16	
V	ML-1206	Data Logger	LR-8514	15~35 °C; 30~80 %RH	HIOKI	2025/3/14	2026/4/14	
	ML-1225	Temperature Chamber	GCT-420DU-40-CP-AR	-40~100 °C	Giant Force	2024/11/26	2025/12/26	EV
T.6 Impact / Crush								
V	ML-458	Data Acquisition	XL122-D	1-50 Vdc, 0 to 200 °C	Yokogawa	2025/4/11	2026/5/11	
	ML-1153	Data Acquisition	LR-8450	1-100 Vdc, 0 to 500 °C	HIOKI	2025/4/11	2026/5/11	
	ML-1016	Impact Tester	KD-2054E	9.1 kg 15.8 mm H:610 mm	King Design	2025/3/21	2026/4/21	
	ML-553	Crush Tester	BCT-01	1.32~10.2 ton Speed : 10, 15, 20 mm/s	Simplo	2025/3/21	2026/4/21	
V	ML-866	Crush Tester	M0654	1327 kg 15 mm 2-5 Vdc, 10 to 200 °C	JYI SHENG	2025/2/20	2026/3/20	
V	ML-1208	Data Logger	LR-8514	15~35 °C; 30~80 %RH	HIOKI	2025/3/14	2026/4/14	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200 °C	Yokogawa	2025/6/18	2026/7/18	
T.7 Overcharge								
	ML-482	Programmable DC Source	DS10014	1-100 Vdc, 0.3-14.4 A	MOTECH	2025/4/11	2026/5/11	
	ML-489	Programmable DC Source	DS10014	1-100 Vdc, 0.3-14.4 A	MOTECH	2025/4/11	2026/5/11	
	ML-904	Programmable DC Source	DS10014-MO	1-100 Vdc, 0.3-14.4 A	B&K Precision	2025/4/11	2026/5/11	
	ML-487	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24 A	MOTECH	2025/4/11	2026/5/11	
	ML-490	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24 A	MOTECH	2025/5/8	2026/6/8	
	ML-1157	Learning	17020E	200 V, 400 A, 40 Kw	Chroma	2025/5/7	2026/6/7	EV
	ML-1006	Learning	17020 (69225-100-4)	200V, 400A, 40 Kw	Chroma	2024/8/20	2025/9/20	EV
	ML-1153	Data Acquisition	LR-8450	1-100 Vdc, 0 to 500°C	HIOKI	2025/4/11	2026/5/11	EV
	ML-1159	Chamber	GTH-1000-60-CP-AR10	T:-60 to 100°C	GF	2025/4/11	2026/5/11	EV
	ML-1164	Data Logger	LR8514	15~35 °C; 30~80 %RH	HIOKI	2025/3/28	2026/4/28	EV
	ML-1208	Data Logger	LR-8514	15~35 °C; 30~80 %RH	HIOKI	2025/3/14	2026/4/14	
V	ML-1207	Data Logger	LR-8514	15~35 °C; 30~80 %RH	HIOKI	2025/3/14	2026/4/14	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200 °C	Yokogawa	2025/6/18	2026/7/18	
	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200 °C	Yokogawa	2025/6/18	2026/7/18	
	ML-918	Overcharge & Forced discharge tester	T901	Charge: 0.2~29.4 Vdc, 0.2~18 A Discharge: 3~19.5 Vdc 0.1~11 A	SMP	2025/3/7	2026/4/7	
V	ML-1200	Overcharge & Forced discharge tester	T901	Charge: 0.2~29.4 Vdc, 0.2~18 A Discharge: 3~19.5 Vdc 0.1~17 A	SMP	2025/4/11	2026/5/11	
	ML-1000	TEMP. & HUMIDITY CHAMBER	GTH-360DU-40-CP-AR	-40~100 °C	GIANT FORCE	2025/2/20	2026/3/20	EV
T.8 Forced Discharge								
	ML-894	Battery Hitester	BT3562	10 mΩ ~ 3 kΩ 0-59 V	HIOKI	2025/4/7	2026/5/7	
	ML-132	Electronic Load	3311C	60 V,60 A, 300 W	Prodigit	2025/1/13	2026/2/13	
	ML-133	Electronic Load	3311C	60 V,60 A, 300 W	Prodigit	2025/1/13	2026/2/13	
	ML-136	Electronic Load	3311C	60 V,60 A, 300 W	Prodigit	2025/1/13	2026/2/13	
	ML-192	Electronic Load	3311C	60 V,60 A, 300 W	Prodigit	2025/1/13	2026/2/13	
	ML-269	Electronic Load	3311C	60 V,60 A, 300 W	Prodigit	2025/1/13	2026/2/13	
	ML-532	DC Electronic Load	33511-01	120 V, 99.64 A	Prodigit	2025/5/7	2026/6/7	
	ML-482	Programmable DC Source	DS10014	1-100 Vdc, 0.3-14.4 A	MOTECH	2025/4/11	2026/5/11	
	ML-489	Programmable DC Source	DS10014	1-100 Vdc, 0.3-14.4 A	MOTECH	2025/4/11	2026/5/11	
	ML-904	Programmable DC Source	DS10014-MO	1-100 Vdc, 0.3-14.4 A	B&K Precision	2025/4/11	2026/5/11	
	ML-487	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24 A	MOTECH	2025/4/11	2026/5/11	
	ML-490	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24 A	MOTECH	2025/5/8	2026/6/8	
	ML-1208	Data Logger	LR-8514	15~35 °C; 30~80 %RH	HIOKI	2025/3/14	2026/4/14	
V	ML-1207	Data Logger	LR-8514	15~35 °C; 30~80 %RH	HIOKI	2025/3/14	2026/4/14	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200 °C	Yokogawa	2025/6/18	2026/7/18	
	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200 °C	Yokogawa	2025/6/18	2026/7/18	
	ML-918	Overcharge & Forced discharge tester	T901	Charge: 0.2~29.4 Vdc, 0.2~18 A Discharge: 3~19.5 Vdc 0.1~11 A	SMP	2025/3/7	2026/4/7	
V	ML-1200	Overcharge & Forced discharge tester	T901	Charge: 0.2~29.4 Vdc, 0.2~18 A Discharge: 3~19.5 Vdc 0.1~17 A	SMP	2025/4/11	2026/5/11	

Note 1: DC Voltage: 0.1-1000V; AC Voltage: 0.5-700V at 60Hz, 1kHz; Resistance: 10Ω-10MΩ; DC Current: 0.1mA-3A; AC Current: 0.01-3A at 60Hz, 0.01-1A, at 1kHz.

报告结束 End of Test Report

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