

UN38.3 Test Report

UN38.3 测试报告

样品名称 二次锂离子电池组 Rechargeable Li-ion Battery Pack
ASUS, C41N2303, 15.48V, 90Wh, Capacity 5820mAh (Typical),
Sample name: 5650mAh (Rated)/ 88Wh/ COSMX/ 320(g)

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

报告版本: V02

Version of Test Report

批准 Approved By	审核 Checked By	编制 Prepared By
经理 Manager	授权签字人 Authorized Signatory	测试工程师 Test Engineer
		

新普科技股份有限公司

SIMPLO TECHNOLOGY CO., LTD.

地址：新竹县湖口乡八德路2段471号

471 Pa Teh Rd, Sec 2 Hu Kou, Hsinchu Hsien, 303 Taiwan

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

Email : Test_Lab@simplo.com.tw

Website : <http://www.simplo.com.tw/>

Form NO. W11-002-B06

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样品名称 Sample name	二次锂离子电池组 Rechargeable Li-ion Battery Pack ASUS, C41N2303, 15.48V, 90Wh, Capacity 5820mAh (Typical), 5650mAh (Rated)/ 88Wh/ COSMX/ 320(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	《关于危险货物运输的建议书-标准与试验手册》ST/SG/AC.10/11/Rev7 Amend 1, section 38.3 Recommendations on the TRANSPORT OF DANGEROUS GOODS, Manual of the Tests and Criteria, Seventh revised edition, Amend 1, 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	2023/05/17	检测起迄日期 Test Date	Cell Test Duration: 2023/05/18~2023/06/07
			Pack Test Duration: 2023/06/14~2023/06/29
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《关于危险货物运输的建议书-标准与试验手册》 ST/SG/AC.10/11/Rev7 Amend 1, section 38.3 标准要求。 The test results complied with the requirements of “Recommendations on the TRANSPORT OF DANGEROUS GOODS, Manual of the Tests and Criteria, Seventh revised edition, Amend 1” , section 38.3		
备注 Remarks	可充电电池组 Rechargeable Li-ion Battery Pack		

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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	2023/06/29
02	Due to the change of label, the sample picture need to be modified and this report has been updated	2023/09/07
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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/Rev7 Amend 1, section 38.3 试验 T1 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev7 Amend 1, 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/Rev7 Amend 1, section 38.3 试验 T2 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev7 Amend 1, 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/Rev7 Amend 1, section 38.3 试验 T3 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev7 Amend 1, section 38.3 Test T3	见附表 3 See Appendix 3	合格 Pass	

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4	冲击 Shock	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev7 Amend 1, section 38.3 試驗 T4 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev7 Amend 1, section 38.3 Test T4	见附表 4 See Appendix 4	合格 Pass
5	外短路 External Short Circuit	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev7 Amend 1, section 38.3 試驗 T5 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev7 Amend 1, 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/Rev7 Amend 1, section 38.3 試驗 T6 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev7 Amend 1, 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/Rev7 Amend 1, section 38.3 試驗 T6 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev7 Amend 1, 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/Rev7 Amend 1, section 38.3 試驗 T7 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev7 Amend 1, 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/Rev7 Amend 1, section 38.3 試驗 T8 UN Manual of the Tests and Criteria,	见附表 8 See Appendix 8	合格 Pass

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		ST/SG/AC.10/11/Rev7 Amend 1, section 38.3 Test T8			
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	检测环境条件 Test environment condition	<p>环境温度：23.6°C~26.6°C；环境湿度：37%~45%。 Ambient temperature：23.6°C~26.6°C；Ambient humidity：37%~45%。</p>			
	报告声明 Report statement	<p>测试结果包含符合基于 ST/SG/AC.10/11/Rev7 Amend 1, 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/Rev7 Amend 1, section 38.3.</p>			
<p>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.</p>					
<p>本报告中呈现的测试结果仅与测试项目/样品有关。 The test results presented in this report relate only to the test items/samples.</p>					

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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	1CY 完全充电 1 Cycle Fully charged	17.376	17.372	99.98%	318.923	318.922	0.00%	O
02	1CY 完全充电 1 Cycle Fully charged	17.380	17.376	99.98%	319.396	319.393	0.00%	O
03	1CY 完全充电 1 Cycle Fully charged	17.379	17.375	99.98%	319.245	319.242	0.00%	O
04	1CY 完全充电 1 Cycle Fully charged	17.377	17.373	99.98%	319.506	319.505	0.00%	O
05	25CY 完全充电 25 Cycles Fully charged	17.390	17.387	99.98%	319.208	319.206	0.00%	O
06	25CY 完全充电 25 Cycles Fully charged	17.368	17.364	99.98%	318.825	318.822	0.00%	O
07	25CY 完全充电 25 Cycles Fully charged	17.388	17.385	99.98%	318.784	318.783	0.00%	O
08	25CY 完全充电 25 Cycles Fully charged	17.394	17.390	99.98%	319.658	319.657	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 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	1CY 完全充电 1 Cycle Fully charged	17.372	17.318	99.69%	318.922	318.886	0.01%	O
02	1CY 完全充电 1 Cycle Fully charged	17.376	17.313	99.64%	319.393	319.349	0.01%	O
03	1CY 完全充电 1 Cycle Fully charged	17.375	17.318	99.67%	319.242	319.176	0.02%	O
04	1CY 完全充电 1 Cycle Fully charged	17.373	17.313	99.65%	319.505	319.468	0.01%	O
05	25CY 完全充电 25 Cycles Fully charged	17.387	17.304	99.52%	319.206	319.177	0.01%	O
06	25CY 完全充电 25 Cycles Fully charged	17.364	17.290	99.57%	318.822	318.776	0.01%	O
07	25CY 完全充电 25 Cycles Fully charged	17.385	17.295	99.48%	318.783	318.746	0.01%	O
08	25CY 完全充电 25 Cycles Fully charged	17.390	17.299	99.48%	319.657	319.606	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	1CY 完全充电 1 Cycle Fully charged	17.318	17.307	99.94%	318.886	318.847	0.01%	O
02	1CY 完全充电 1 Cycle Fully charged	17.313	17.302	99.94%	319.349	319.316	0.01%	O
03	1CY 完全充电 1 Cycle Fully charged	17.318	17.305	99.92%	319.176	319.150	0.01%	O
04	1CY 完全充电 1 Cycle Fully charged	17.313	17.303	99.94%	319.468	319.429	0.01%	O
05	25CY 完全充电 25 Cycles Fully charged	17.304	17.288	99.91%	319.177	319.140	0.01%	O
06	25CY 完全充电 25 Cycles Fully charged	17.290	17.272	99.90%	318.776	318.751	0.01%	O
07	25CY 完全充电 25 Cycles Fully charged	17.295	17.280	99.91%	318.746	318.726	0.01%	O
08	25CY 完全充电 25 Cycles Fully charged	17.299	17.286	99.92%	319.606	319.588	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 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	1CY 完全充电 1 Cycle Fully charged	17.307	17.303	99.98%	318.847	318.845	0.00%	O
02	1CY 完全充电 1 Cycle Fully charged	17.302	17.298	99.98%	319.316	319.313	0.00%	O
03	1CY 完全充电 1 Cycle Fully charged	17.305	17.302	99.98%	319.150	319.149	0.00%	O
04	1CY 完全充电 1 Cycle Fully charged	17.303	17.299	99.98%	319.429	319.429	0.00%	O
05	25CY 完全充电 25 Cycles Fully charged	17.288	17.282	99.97%	319.140	319.137	0.00%	O
06	25CY 完全充电 25 Cycles Fully charged	17.272	17.269	99.98%	318.751	318.750	0.00%	O
07	25CY 完全充电 25 Cycles Fully charged	17.280	17.275	99.97%	318.726	318.722	0.00%	O
08	25CY 完全充电 25 Cycles Fully charged	17.286	17.283	99.98%	319.588	319.584	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	其他现象 Other Event
01	1CY 完全充电 1 Cycle Fully charged	59.4	O
02	1CY 完全充电 1 Cycle Fully charged	59.3	O
03	1CY 完全充电 1 Cycle Fully charged	59.2	O
04	1CY 完全充电 1 Cycle Fully charged	59.1	O
05	25CY 完全充电 25 Cycles Fully charged	59.2	O
06	25CY 完全充电 25 Cycles Fully charged	59.4	O
07	25CY 完全充电 25 Cycles Fully charged	59.4	O
08	25CY 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	其他现象 Other Event
01 C	1CY 50% 容量 1 Cycle 50% Capacity	N/A	N/A
02 C	1CY 50% 容量 1 Cycle 50% Capacity	N/A	N/A
03 C	1CY 50% 容量 1 Cycle 50% Capacity	N/A	N/A
04 C	1CY 50% 容量 1 Cycle 50% Capacity	N/A	N/A
05 C	1CY 50% 容量 1 Cycle 50% Capacity	N/A	N/A
06 C	25CY 50% 容量 25 Cycles 50% Capacity	N/A	N/A
07 C	25CY 50% 容量 25 Cycles 50% Capacity	N/A	N/A
08 C	25CY 50% 容量 25 Cycles 50% Capacity	N/A	N/A
09 C	25CY 50% 容量 25 Cycles 50% Capacity	N/A	N/A
10 C	25CY 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.

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

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/°C	其他现象 Other Event
01 C	1CY 50% 容量 1 Cycle 50% Capacity	26.2	O
02 C	1CY 50% 容量 1 Cycle 50% Capacity	26.1	O
03 C	1CY 50% 容量 1 Cycle 50% Capacity	26.0	O
04 C	1CY 50% 容量 1 Cycle 50% Capacity	25.3	O
05 C	1CY 50% 容量 1 Cycle 50% Capacity	25.6	O
06 C	25CY 50% 容量 25 Cycles 50% Capacity	25.4	O
07 C	25CY 50% 容量 25 Cycles 50% Capacity	25.9	O
08 C	25CY 50% 容量 25 Cycles 50% Capacity	25.9	O
09 C	25CY 50% 容量 25 Cycles 50% Capacity	28.3	O
10 C	25CY 50% 容量 25 Cycles 50% Capacity	27.5	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	1CY 完全充电 1 Cycle Fully charged		O
10	1CY 完全充电 1 Cycle Fully charged		O
11	1CY 完全充电 1 Cycle Fully charged		O
12	1CY 完全充电 1 Cycle Fully charged		O
13	25CY 完全充电 25 Cycles Fully charged		O
14	25CY 完全充电 25 Cycles Fully charged		O
15	25CY 完全充电 25 Cycles Fully charged		O
16	25CY 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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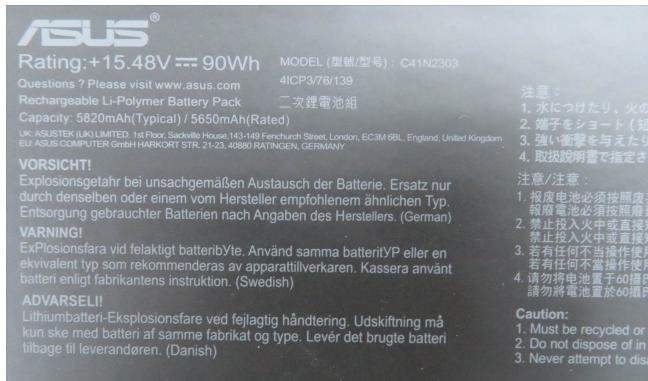
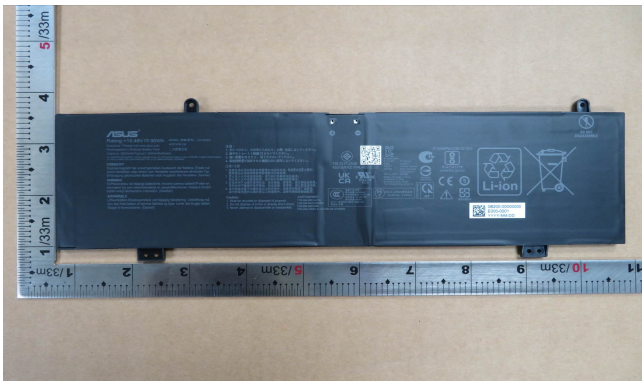
附表 8 Appendix 8			
序号 No.	8	检测项目 Test items	强制放电 Forced Discharge
试样编号 Sample No.	样品状态 Sample Status	其他现象 Other Event	
11 C	1CY 完全放电 1 Cycle Fully Discharged		O
12 C	1CY 完全放电 1 Cycle Fully Discharged		O
13 C	1CY 完全放电 1 Cycle Fully Discharged		O
14 C	1CY 完全放电 1 Cycle Fully Discharged		O
15 C	1CY 完全放电 1 Cycle Fully Discharged		O
16 C	1CY 完全放电 1 Cycle Fully Discharged		O
17 C	1CY 完全放电 1 Cycle Fully Discharged		O
18 C	1CY 完全放电 1 Cycle Fully Discharged		O
19 C	1CY 完全放电 1 Cycle Fully Discharged		O
20 C	1CY 完全放电 1 Cycle Fully Discharged		O
21 C	25CY 完全放电 25 Cycles Fully Discharged		O
22 C	25CY 完全放电 25 Cycles Fully Discharged		O
23 C	25CY 完全放电 25 Cycles Fully Discharged		O
24 C	25CY 完全放电 25 Cycles Fully Discharged		O
25 C	25CY 完全放电 25 Cycles Fully Discharged		O
26 C	25CY 完全放电 25 Cycles Fully Discharged		O
27 C	25CY 完全放电 25 Cycles Fully Discharged		O
28 C	25CY 完全放电 25 Cycles Fully Discharged		O
29 C	25CY 完全放电 25 Cycles Fully Discharged		O
30 C	25CY 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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待測物照片 Sample Pictures:



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儀器清冊 Test Equipment List:

SMP SIMPLO TECHNOLOGY CO., LTD.

Address : No.471, Sec.2, Pa Teh Rd., Hu Kou, Hsin Chu Hsien 303, Taiwan
TEL: +886-3-5695920; FAX: +886-3-5695931

Revised Date: 2023-06-29

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	0~18V 0~8A	SMP	2023/1/17	2024/2/17	
V	ML-762	Learning	715C	0~18V 0~8A	SMP	2023/1/4	2024/2/4	
V	ML-763	Learning	715C	0~18V 0~8A	SMP	2023/1/17	2024/2/17	
	ML-925	Learning	750C8	0~60V 0~30A	SMP	2023/1/4	2024/2/4	
V	ML-1139	Learning	L720-191212-D	0~19V 0~12A	SMP	2023/1/4	2024/2/4	
T.1 Altitude Simulation								
V	ML-522	Altitude	SVT-120	kPa:30~90	HSIN JIANG	2022/6/2	2023/7/2	
V	ML-257	Multimeter	34401A	Note 1	Agilent	2023/1/17	2024/2/17	
V	ML-995	Electronic Balance	UX1020H	1-1220 gf	SHIMADZU	2023/1/4	2024/2/4	
	ML-1035	Electronic Balance	JWI-700W	30*0.005kg	JADEVER	2023/5/31	2024/6/30	
V	ML-550	Data Logger	313	15~35 ℃; 30~80 %RH	CENTER	2022/7/8	2023/8/8	
V	ML-964	Barometric Air Pressure	MP55	750 to 1100 mbar	KIMO	2022/6/6	2023/7/6	
T.2 Thermal Test								
V	ML-789	Thermal Shock	GTST-080-65-AW	T:-40 to 100℃	GF	2023/1/4	2024/2/4	
V	ML-257	Multimeter	34401A	note 1	Agilent	2023/1/17	2024/2/17	
V	ML-995	Electronic Balance	UX1020H	1-1220 gf	SHIMADZU	2023/1/4	2024/2/4	
	ML-1035	Electronic Balance	JWI-700W	30*0.005kg	JADEVER	2023/5/31	2024/6/30	
V	ML-551	Data Logger	313	15~35 ℃; 30~80 %RH	CENTER	2022/7/8	2023/8/8	
T.3 Vibration								
V	ML-233	Vibration	KD-9363-EM-300F2K-30N80	F:5~2000Hz G:0.2~20G	King Design	2022/7/25	2023/8/25	
V	ML-257	Multimeter	34401A	note 1	Agilent	2023/1/17	2024/2/17	
V	ML-995	Electronic Balance	UX1020H	1-1220 gf	SHIMADZU	2023/1/4	2024/2/4	
	ML-1035	Electronic Balance	JWI-700W	30*0.005kg	JADEVER	2023/5/31	2024/6/30	
V	ML-552	Data Logger	313	15~35 ℃; 30~80 %RH	CENTER	2022/7/8	2023/8/8	
T.4 Shock								
V	ML-056	Shock	DP-1200-25	G:10~600G	King Design	2022/7/25	2023/8/25	
V	ML-257	Multimeter	34401A	note 1	Agilent	2023/1/17	2024/2/17	
V	ML-995	Electronic Balance	UX1020H	1-1220 gf	SHIMADZU	2023/1/4	2024/2/4	
	ML-1035	Electronic Balance	JWI-700W	30*0.005kg	JADEVER	2023/5/31	2024/6/30	
V	ML-551	Data Logger	313	15~35 ℃; 30~80 %RH	CENTER	2022/7/8	2023/8/8	
T.5 External Short Circuit								
V	ML-894	Battery Hitester	BT3562	10mΩ ~ 30kΩ	HIOKI	2023/4/14	2024/5/14	
V	ML-257	Multimeter	34401A	note 1	Agilent	2023/1/17	2024/2/17	
V	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2022/7/6	2023/8/6	
V	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2022/7/6	2023/8/6	
	ML-1153	Data Acquisition	LR-8450	1-100 Vdc, -50 to 150℃	HIOKI	2023/4/27	2024/5/27	
V	ML-521	Oven	9031	30~80 ℃	YEOW LONG	2022/8/3	2023/9/3	
V	ML-1083	Data Logger	1161	15~35 ℃; 30~80 %RH	TES	2022/9/14	2023/10/14	
T.6 Impact / Crush								
V	ML-458	Data Acquisition	XL122-D	1-100 Vdc, -50 to 150℃	Yokogawa	2023/4/21	2024/5/21	
	ML-1153	Data Acquisition	LR-8450	1-100 Vdc, -50 to 150℃	HIOKI	2023/4/27	2024/5/27	
	ML-1016	Impact Tester	KD-2054E		King Design	2023/3/23	2024/4/23	
	ML-553	Crush Tester	BCT-01		Simplo	2023/3/23	2024/4/23	
V	ML-866	Crush Tester	M0654		JYI SHENG	2023/3/23	2024/4/23	
V	ML-1083	Data Logger	1161	15~35 ℃; 30~80 %RH	TES	2022/9/14	2023/10/14	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2022/7/6	2023/8/6	

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Revised Date: 2023-06-29

Test Instruments Reference List								
Used	Instrument ID	Instrument Name	Type	Range of use	Manufacturer	Calibration Date_Last	Calibration Date_Next	Remarks
T.7 Overcharge								
	ML-482	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2023/4/21	2024/5/21	
	ML-489	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2023/4/21	2024/5/21	
	ML-904	Programmable DC Source	DS10014-MO	1-100Vdc, 0.3-14.4A	B&K Precision	2023/4/21	2024/5/21	
	ML-487	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2023/4/21	2024/5/21	
	ML-488	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2023/4/21	2024/5/21	
	ML-490	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2023/5/24	2024/6/24	
V	ML-1083	Data Logger	1161	15~35 ℃; 30~80 %RH	TES	2022/9/14	2023/10/14	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2022/7/6	2023/8/6	
	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2022/7/6	2023/8/6	
V	ML-918	Overcharge & Forced discharge tester	T901	3~30 Vdc, Charge: 0.05~20A Discharge: 0.02~10A	SMP	2023/4/21	2024/5/21	
T.8 Forced Discharge								
	ML-894	Battery Hitester	BT3562	10mΩ ~ 30kΩ	HIOKI	2023/4/14	2024/5/14	
	ML-132	Electronic Load	3311C	60V,60A, 300W	Prodigit	2023/1/16	2024/2/16	
	ML-133	Electronic Load	3311C	60V,60A, 300W	Prodigit	2023/1/16	2024/2/16	
	ML-136	Electronic Load	3311C	60V,60A, 300W	Prodigit	2023/1/16	2024/2/16	
	ML-192	Electronic Load	3311C	60V,60A, 300W	Prodigit	2023/1/16	2024/2/16	
	ML-269	Electronic Load	3311C	60V,60A, 300W	Prodigit	2023/1/16	2024/2/16	
	ML-532	DC Electronic Load	33511-01	120V, 240A, 3600W	Prodigit	2023/5/24	2024/6/24	
	ML-482	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2023/4/21	2024/5/21	
	ML-489	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2023/4/21	2024/5/21	
	ML-904	Programmable DC Source	DS10014-MO	1-100Vdc, 0.3-14.4A	B&K Precision	2023/4/21	2024/5/21	
	ML-487	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2023/4/21	2024/5/21	
	ML-488	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2023/4/21	2024/5/21	
	ML-490	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2023/5/24	2024/6/24	
V	ML-1083	Data Logger	1161	15~35 ℃; 30~80 %RH	TES	2022/9/14	2023/10/14	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2022/7/6	2023/8/6	
	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2022/7/6	2023/8/6	
V	ML-918	Overcharge & Forced discharge tester	T901	3~30 Vdc, Charge: 0.05~20A Discharge: 0.02~10A	SMP	2023/4/21	2024/5/21	
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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