



新普科技股份有限公司
新世電子(常熟)有限公司
新普科技(重慶)有限公司
華普電子(常熟)有限公司

Control Number: SLEU-2007010

Rechargeable Li-ion Battery UN38.3 Test Report

Recommendations on the TRANSPORT OF DANGEROUS GOODS

(Manual of Tests and Criteria, Sixth revised edition, Amend 1)

Customer: Lenovo

Model: L20M4P73

Rating/ Mass: 15.36V, Typical Capacity 3564mh/ 54.7Wh

Rated Capacity 3451mAh/ 53Wh /220 (g)

Issue date: 2020/07/29

Approved By	Checked By	Prepared By
Project Manager	Authorized Signatory	Test Engineer
<i>Sing Sin</i>	<i>Zongbao Huang</i>	<i>Mia cheng</i>

●	SIMPLO TECHNOLOGY CO., LTD. ADD : No. 471 Pa Teh Rd, Sec 2 Hu Kou, Hsinchu Hsien, 303 Taiwan TEL: +886-3-5695920 FAX: +886-3-5695931	
	SIMPLO TECHNOLOGY (CHANGSHU) INC. ADD : No.888 Dongnan Avenue, Changshu New & Hi-Tech Industrial Development Zone, Changshu, Jiangsu, China TEL: +86-512-52302255 FAX: +86-512-52302277	
	SIMPLO TECHNOLOGY (CHONGQING) INC. ADD : No.2 Zongbao Avenue, Shapingba District, ChongQing, China TEL: +86-23-61718899 FAX: +86-23-61210488	
	HUAPU TECHNOLOGY (CHANGSHU) INC. ADD : No.888 Dongnan Avenue, Changshu New & Hi-Tech Industrial Development Zone, Changshu, Jiangsu, China TEL: +86-512-52302255 FAX: +86-512-52302277	

Email : Test_Lab@simplo.com.tw

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

Form No. : W11-002-B05

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1. Purpose of the Test :

To test each cell/battery is of the type proved to meet the requirements in United Nations Recommendations on the TRANSPORT OF DANGEROUS GOODS, Manual of Tests and Criteria, Sixth revised edition, Amend 1, Section 38.3.

2. Test Result :

Test results of the UN Recommendations on the Transport of Dangerous Goods

No.	Test Item	Test results
T.1	Altitude simulation	PASS
T.2	Thermal test	PASS
T.3	Vibration test	PASS
T.4	Shock test	PASS
T.5	External short circuit	PASS
T.6	Impact, Crush test	PASS
T.7	Overcharge	PASS
T.8	Forced discharge	PASS

3. Test Lab: Email : Test_Lab@simplo.com.tw Website : <http://www.simplo.com.tw/>

●	SIMPLO (Taiwan) Laboratory ADD : No. 471 Pa Teh Rd, Sec 2 Hu Kou, Hsinchu Hsien, 303 Taiwan TEL: +886-3-5695920 FAX: +886-3-5695931
	SIMPLO (CHANGSHU) Laboratory ADD : No.888 Dongnan Avenue, Changshu New & Hi-Tech Industrial Development Zone, Changshu, Jiangsu, China TEL: +86-512-52302255 FAX: +86-512-52302277
	SIMPLO (CHONGQING) Laboratory. ADD : No.2 Zongbao Avenue, Shapingba District, ChongQing, China TEL: +86-23-61718899 FAX: +86-23-61210488

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4. Product manufacturer : Email : Test_Lab@simplo.com.tw Website : <http://www.simplo.com.tw/>

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5. Test Quantity :

- 5.1 Four batteries, at first cycle, in fully charged states. (For T.1~T.5)
- 5.2 Four batteries, after 25 cycles ending in fully charged states. (For T.1~T.5)
- 5.3 Five component cells, at first cycle at 50% of the design rated capacity. (For T.6)
- 5.4 Five component cells, after 25 cycles at 50% of the design rated capacity. (For T.6)
- 5.5 Four batteries, at first cycle, in fully charged states. (For T.7)
- 5.6 Four batteries, after 25 cycles ending in fully charged states. (For T.7)
- 5.7 Ten component cells, at first cycle in fully discharge states. (For T.8)
- 5.8 Ten component cells, after 25 cycles ending in fully discharged states. (For T.8)

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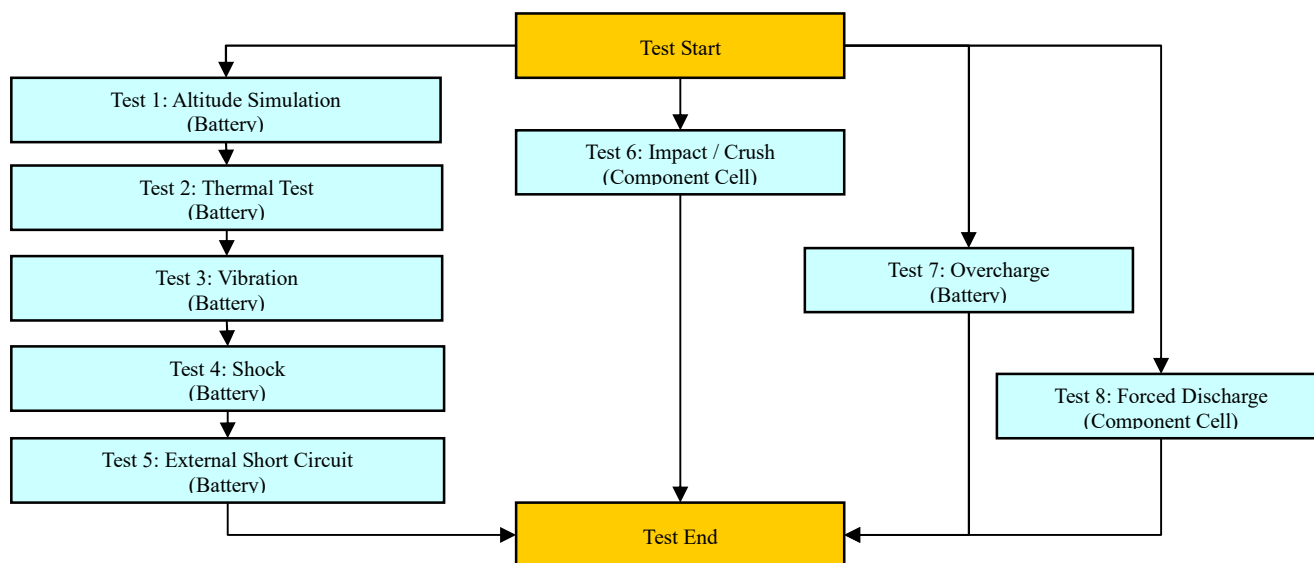
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6. Test Procedure :

6.1 All detailed test procedures must be based on United Nations Recommendations on the TRANSPORT OF DANGEROUS GOODS, Manual of Tests and Criteria, Sixth revised edition, Amend 1, Section 38.3.

6.2 Test flow shall be followed as below.



Conclusion: The samples had passed the test items of UN38.3.

7. Comment :

7.1 Due to the change of label, the sample picture need to modify, this report have been updated.
(The control number of old report: SLEU-2007005)



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8. Test Equipment :



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Revised Date: 2020-07-29

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	2020/2/19	2021/3/19	
V	ML-762	Learning	715C	0~18V 0~8A	SMP	2020/1/2	2021/2/2	
V	ML-763	Learning	715C	0~18V 0~8A	SMP	2020/2/19	2021/3/19	
V	ML-764	Learning	715C	0~18V 0~8A	SMP	2020/1/2	2021/2/2	
	ML-925	Learning	750C8	0~60V 0~30A	SMP	2020/1/2	2021/2/2	
T.1 Altitude Simulation								
V	ML-522	Altitude	SVT-120	kPa:30~90	HSIN JIANG	2020/7/1	2021/8/1	
V	ML-257	Multimeter	34401A	Note 1	Agilent	2019/9/2	2020/10/2	
V	ML-494	Electronic Balance	XS1220M-SCS	1-1220 gf	PRECISA	2020/7/1	2021/8/1	
	ML-523	Electronic Balance	MTW-30K	30*0.005kg		2019/8/16	2020/9/16	
V	ML-550	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2019/8/15	2020/9/15	
V	ML-964	Barometric Air Pressure	MP55	750 to 1100 mbar	KIMO	2019/8/6	2020/9/6	
T.2 Thermal Test								
V	ML-789	Thermal Shock	GTST-080-65-AW	T:-40 to 100°C	GF	2019/8/16	2020/9/16	
V	ML-257	Multimeter	34401A	note 1	Agilent	2019/9/2	2020/10/2	
V	ML-494	Electronic Balance	XS1220M-SCS	1-1220 gf	PRECISA	2020/7/1	2021/8/1	
	ML-523	Electronic Balance	MTW-30K	30*0.005kg		2019/8/16	2020/9/16	
V	ML-551	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2019/8/15	2020/9/15	
T.3 Vibration								
V	ML-233	Vibration	KD-9636-EM-300F2K-30N80	F:5~2000Hz G:0.2~20G	King Design	2019/8/7	2020/9/7	
V	ML-257	Multimeter	34401A	note 1	Agilent	2019/9/2	2020/10/2	
V	ML-494	Electronic Balance	XS1220M-SCS	1-1220 gf	PRECISA	2020/7/1	2021/8/1	
	ML-523	Electronic Balance	MTW-30K	30*0.005kg		2019/8/16	2020/9/16	
V	ML-552	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2019/8/15	2020/9/15	
T.4 Shock								
V	ML-056	Shock	DP-1200-25	G:10~600G	King Design	2019/8/7	2020/9/7	
V	ML-257	Multimeter	34401A	note 1	Agilent	2019/9/2	2020/10/2	
V	ML-494	Electronic Balance	XS1220M-SCS	1-1220 gf	PRECISA	2020/7/1	2021/8/1	
	ML-523	Electronic Balance	MTW-30K	30*0.005kg		2019/8/16	2020/9/16	
V	ML-551	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2019/8/15	2020/9/15	
T.5 External Short Circuit								
V	ML-894	Battery Hitester	BT3562	1mΩ ~ 30kΩ	HIOKI	2020/6/9	2021/7/9	
V	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200°C	Yokogawa	2019/8/16	2020/9/16	
V	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200°C	Yokogawa	2019/8/16	2020/9/16	
V	ML-521	Oven	9031	30~80 °C	YEOU LONG	2019/8/16	2020/9/16	
V	ML-952	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2020/7/2	2021/8/2	
T.6 Impact / Crush								
V	ML-458	Data Acquisition	XL122-D	1-100 Vdc, -50 to 150°C	Yokogawa	2020/6/3	2021/7/3	
	ML-076	Impact Tester			JYI SHENG	2020/1/6	2021/2/6	
	ML-553	Crush Tester	BCT-01		Simplo	2020/4/8	2021/5/8	
V	ML-866	Crush Tester	M0654		JYI SHENG	2020/4/8	2021/5/8	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200°C	Yokogawa	2019/8/16	2020/9/16	

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Control Number: SLEU-2007010

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: 2020-07-29

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	2020/5/7	2021/6/7	
	ML-483	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2020/5/7	2021/6/7	
	ML-484	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2020/5/7	2021/6/7	
	ML-486	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2020/5/7	2021/6/7	
	ML-487	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2020/5/7	2021/6/7	
V	ML-952	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2020/7/2	2021/8/2	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200°C	Yokogawa	2019/8/16	2020/9/16	
	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200°C	Yokogawa	2019/8/16	2020/9/16	
V	ML-918	Overcharge & Forced discharge tester	T901	3~30 Vdc, Charge: 0.05~20A Discharge: 0.02~10A	SMP	2020/5/7	2021/6/7	
	T.8 Forced Discharge							
	ML-132	Electronic Load	3311C	60V,60A, 300W	Prodigit	2020/2/20	2021/3/20	
	ML-133	Electronic Load	3311C	60V,60A, 300W	Prodigit	2020/2/20	2021/3/20	
	ML-136	Electronic Load	3311C	60V,60A, 300W	Prodigit	2020/2/20	2021/3/20	
	ML-192	Electronic Load	3311C	60V,60A, 300W	Prodigit	2020/2/20	2021/3/20	
	ML-269	Electronic Load	3311C	60V,60A, 300W	Prodigit	2020/2/20	2021/3/20	
	ML-532	DC Electronic Load	33511-01	120V, 240A, 3600W	Prodigit	2020/7/1	2021/8/1	
	ML-482	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2020/5/7	2021/6/7	
	ML-483	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2020/5/7	2021/6/7	
	ML-484	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2020/5/7	2021/6/7	
	ML-486	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2020/5/7	2021/6/7	
	ML-487	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2020/5/7	2021/6/7	
V	ML-952	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2020/7/2	2021/8/2	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200°C	Yokogawa	2019/8/16	2020/9/16	
	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200°C	Yokogawa	2019/8/16	2020/9/16	
V	ML-918	Overcharge & Forced discharge tester	T901	3~30 Vdc, Charge: 0.05~20A Discharge: 0.02~10A	SMP	2020/5/7	2021/6/7	
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.								

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9. T.1~T.8 Detail Reports:

UN 38.3 Test Datasheet UN38.3/ST/SG/AC.10/11/Rev.6/Amend.1

Control Number: SLEU-2007010	Customer: Lenovo	Model Name: L20M4P73	SMP Project Name: Serval
Pack P/N: 931QA196H (A)(B) 931QA197H (A)(B)	Configuration: 4S1P	Test Duration: 2020/07/13~2020/07/29	Reviewer: Esmond
Cell Vendor: ATL	Cell Model: 526264	N/A	N/A

Test Sample Identification: ☐ Large Battery ☒ Small Battery ☐ Single-cell Battery

Battery Pack						Component Cell		
Used	Sample No.	Sample State	Used	Sample No.	Sample State	Used	Sample No.	Sample State
V	01~04	1 Cycle, Fully charged	V	05~08	25 Cycles, Fully charged	V	01C~05C	1 Cycle, 50% SOC
V	09~12	1 Cycle, Fully charged	V	13~16	25 Cycles, Fully charged	V	06C~10C	25 Cycles, 50% SOC
						V	11C~20C	1 Cycle, Fully discharged (0% SOC)
						V	21C~30C	25 Cycles, Fully discharged (0% SOC)

T.1 Altitude Simulation

Start time: 2020/07/20 08:40		Ambient temp.: 24.6 °C						Operator: Mia	
Finish time: 2020/07/20 15:48		Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	17.030	17.036	17.033	17.027	17.034	17.029	17.031	17.033
	After	17.015	17.026	17.020	17.015	17.019	17.017	17.014	17.023
	Residual OCV %	99.91%	99.94%	99.92%	99.93%	99.91%	99.93%	99.90%	99.94%
Mass (g)	Before	220.283	220.015	219.689	219.748	220.260	219.927	219.850	220.172
	After	220.276	220.006	219.681	219.742	220.252	219.919	219.841	220.164
	Mass loss %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Results		P	P	P	P	P	P	P	P

T.2 Thermal Test

Start time: 2020/07/20 16:10		Ambient temp.: 24.8 °C						Operator: Mia	
Finish time: 2020/07/27 09:04		Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	17.015	17.026	17.020	17.015	17.019	17.017	17.014	17.023
	After	16.836	16.841	16.838	16.832	16.840	16.832	16.833	16.840
	Residual OCV %	98.95%	98.91%	98.93%	98.92%	98.95%	98.91%	98.94%	98.92%
Mass (g)	Before	220.276	220.006	219.681	219.742	220.252	219.919	219.841	220.164
	After	220.256	219.992	219.663	219.726	220.238	219.898	219.821	220.147
	Mass loss %	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
Results		P	P	P	P	P	P	P	P

T.3 Vibration

Start time: 2020/07/27 09:25		Ambient temp.: 25.1 °C						Operator: Mia	
Finish time: 2020/07/28 09:05		Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	16.836	16.841	16.838	16.832	16.840	16.832	16.833	16.840
	After	16.825	16.826	16.828	16.819	16.826	16.816	16.823	16.828
	Residual OCV %	99.93%	99.91%	99.94%	99.92%	99.92%	99.90%	99.94%	99.93%
Mass (g)	Before	220.256	219.992	219.663	219.726	220.238	219.898	219.821	220.147
	After	220.249	219.986	219.658	219.721	220.231	219.890	219.815	220.142
	Mass loss %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Results		P	P	P	P	P	P	P	P

T.4 Shock

Start time: 2020/07/28 09:27		Ambient temp.: 24.9 °C						Operator: Mia	
Finish time: 2020/07/28 14:00		Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	16.825	16.826	16.828	16.819	16.826	16.816	16.823	16.828
	After	16.815	16.812	16.819	16.807	16.811	16.806	16.810	16.819
	Residual OCV %	99.94%	99.92%	99.95%	99.93%	99.91%	99.94%	99.92%	99.95%
Mass (g)	Before	220.249	219.986	219.658	219.721	220.231	219.890	219.815	220.142
	After	220.245	219.981	219.655	219.719	220.227	219.888	219.812	220.138
	Mass loss %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Results		P	P	P	P	P	P	P	P

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新世電子(常熟)有限公司
新普科技(重慶)有限公司
華普電子(常熟)有限公司

Control Number: SLEU-2007010

T.5 External Short Circuit

Start time: 2020/07/28 14:20	Ambient temp.: 25.2 °C				Operator: Mia			
Finish time: 2020/07/29 09:01	Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	16.815	16.812	16.819	16.807	16.811	16.806	16.810
	After	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Resistance (<100mΩ)		59.1	61.3	58.5	60.1	57.4	59.8	60.6
Max Temp. (< 170°C)		57.6	57.4	57.7	57.2	57.9	57.1	57.8
Results		P	P	P	P	P	P	P

T.6 Impact / Crush (Component Cell)

UN38.3/ST/SG/AC.10/11/Rev.6/Amend.1

☐ Impact - Cylindrical cells not less than 18.0 mm in diameter

☒ Crush - Prismatic, pouch, coin/button cells and cylindrical cells less than 18.0 mm in diameter

Start time: 2020/07/21 13:09	Ambient temp.: 25.4 °C				Operator: Mia			
Finish time: 2020/07/21 17:30	Sample 01C	Sample 02C	Sample 03C	Sample 04C	Sample 05C			
Initial OCV (V)	3.799	3.793	3.805	3.794	3.809			
Max Temp. (< 170°C)	23.6	24.0	23.4	24.3	24.1			
Results	P	P	P	P	P			
Sample No.	Sample 06C	Sample 07C	Sample 08C	Sample 09C	Sample 10C			
Initial OCV (V)	3.801	3.796	3.804	3.803	3.797			
Max Temp. (< 170°C)	24.7	24.5	23.9	24.0	23.7			
Results	P	P	P	P	P			

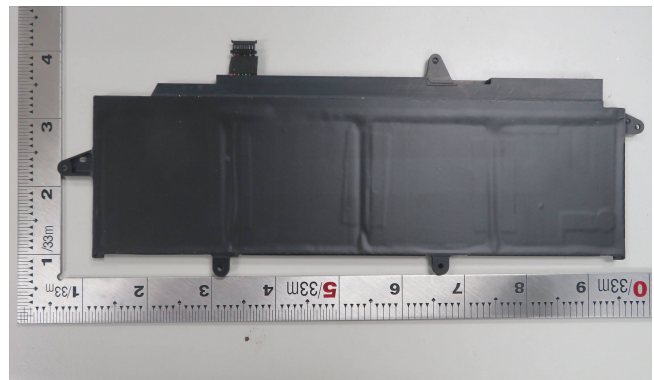
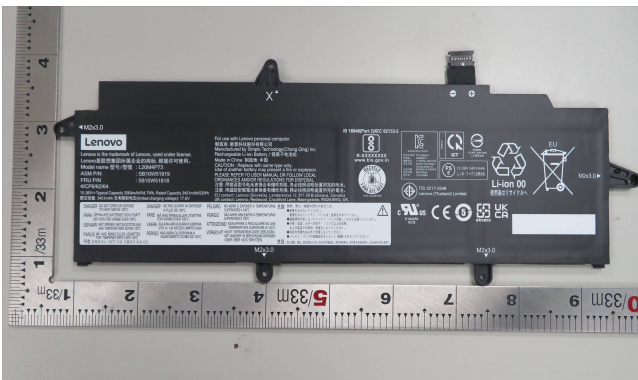
T.7 Overcharge

Start time: 2020/07/20 10:39	Ambient temp.: 25.1 °C				Operator: Mia			
Finish time: 2020/07/28 12:53	Sample 09	Sample 10	Sample 11	Sample 12	Sample 13	Sample 14	Sample 15	Sample 16
Initial OCV (V)	17.026	17.037	17.033	17.031	17.040	17.032	17.041	17.028
Results	P	P	P	P	P	P	P	P

T.8 Forced Discharge (Component Cell)

Start time: 2020/07/21 08:56	Ambient temp.: 24.9 °C				Operator: Mia			
Finish time: 2020/07/29 10:40	Sample 11C	Sample 12C	Sample 13C	Sample 14C	Sample 15C	Sample 16C	Sample 17C	Sample 18C
Initial OCV (V)	3.461	3.445	3.459	3.437	3.440	3.467	3.434	3.470
Results	P	P	P	P	P	P	P	P
Sample No.	Sample 19C	Sample 20C	Sample 21C	Sample 22C	Sample 23C	Sample 24C	Sample 25C	Sample 26C
Initial OCV (V)	3.448	3.464	3.431	3.452	3.469	3.456	3.430	3.466
Results	P	P	P	P	P	P	P	P
Sample No.	Sample 27C	Sample 28C	Sample 29C	Sample 30C				
Initial OCV (V)	3.454	3.449	3.460	3.455				
Results	P	P	P	P				

9. Test Sample:



Form No. : W11-002-B05

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