



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-2207005

Rechargeable Li-ion Battery UN38.3 Test Report

Recommendations on the TRANSPORT OF DANGEROUS GOODS

(Manual of Tests and Criteria, Seventh revised edition)

Customer: Lenovo

Model: L22M3PG1

**Rating/ Mass: 11.52V , Typical Capacity 4948mAh/ 57Wh
 Rated Capacity 4862mAh/ 56Wh/ 226(g)**

Version of Test Report: 01

Issue date: 2022/07/27

Approved By	Checked By	Prepared By
Project Manager	Authorized Signatory	Test Engineer
<i>Sung sin</i>	<i>Esmael Huang</i>	<i>Rasner Hsu</i>

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	<p>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</p>	
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Email : Test_Lab@simplo.com.tw

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

Form No. : W11-002-B05

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Control Number: SLEU-2207005

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, Seventh revised edition, 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
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Control Number: SLEU-2207005

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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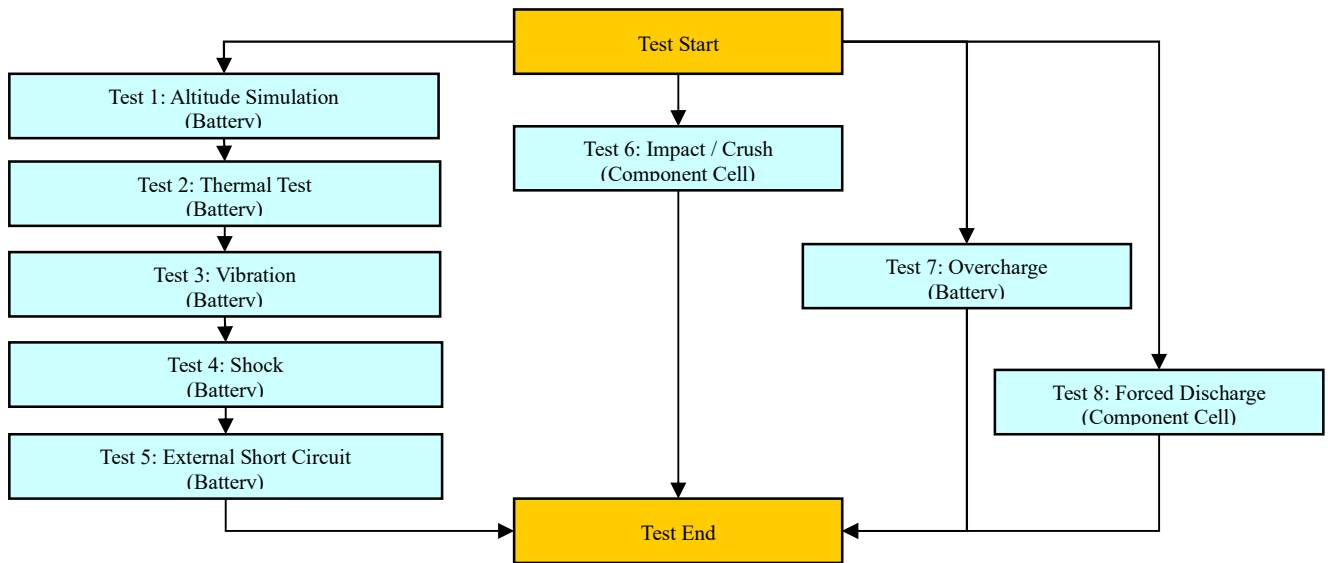
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6. Test Procedure :

6.1 All detailed test procedures must be based on United Nations Recommendations on the TRANSPORT OF DANGEROUS GOODS, Manual of Tests and Criteria, Seventh revised edition, 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 :

Version	Modify content	Issue date
01	First publish	2022/07/27

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Control Number: SLEU-2207005

8. Test Equipment :

SMP SIMPLO TECHNOLOGY CO., LTD.

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Revised Date: 2022-07-27

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	2022/1/27	2023/2/27	
V	ML-762	Learning	715C	0~18V 0~8A	SMP	2022/1/4	2023/2/4	
V	ML-763	Learning	715C	0~18V 0~8A	SMP	2022/1/27	2023/2/27	
V	ML-764	Learning	715C	0~18V 0~8A	SMP	2022/1/4	2023/2/4	
	ML-925	Learning	750C8	0~60V 0~30A	SMP	2022/1/4	2023/2/4	
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	2022/1/26	2023/2/26	
V	ML-995	Electronic Balance	UX1020H	1-1220 gf	SHIMADZU	2022/1/4	2023/2/4	
	ML-1035	Electronic Balance	JWI-700W	30*0.005kg	JADEVER	2022/6/2	2023/7/2	
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	2022/1/4	2023/2/4	
V	ML-257	Multimeter	34401A	note 1	Agilent	2022/1/26	2023/2/26	
V	ML-995	Electronic Balance	UX1020H	1-1220 gf	SHIMADZU	2022/1/4	2023/2/4	
	ML-1035	Electronic Balance	JWI-700W	30*0.005kg	JADEVER	2022/6/2	2023/7/2	
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	2022/1/26	2023/2/26	
V	ML-995	Electronic Balance	UX1020H	1-1220 gf	SHIMADZU	2022/1/4	2023/2/4	
	ML-1035	Electronic Balance	JWI-700W	30*0.005kg	JADEVER	2022/6/2	2023/7/2	
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	2022/1/26	2023/2/26	
V	ML-995	Electronic Balance	UX1020H	1-1220 gf	SHIMADZU	2022/1/4	2023/2/4	
	ML-1035	Electronic Balance	JWI-700W	30*0.005kg	JADEVER	2022/6/2	2023/7/2	
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	2022/4/14	2023/5/14	
V	ML-257	Multimeter	34401A	note 1	Agilent	2022/1/26	2023/2/26	
V	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2022/7/6	2022/8/6	
V	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2022/7/6	2022/8/6	
V	ML-521	Oven	9031	30~80 ℃	YEOW LONG	2021/8/4	2022/9/4	
V	ML-1083	Data Logger	1161	15~35 ℃; 30~80 %RH	TES	2021/9/13	2022/10/13	
T.6 Impact / Crush								
V	ML-458	Data Acquisition	XL122-D	1-100 Vdc, -50 to 150℃	Yokogawa	2022/4/28	2023/5/28	
	ML-1016	Impact Tester	KD-2054E		King Design	2022/3/23	2023/4/23	
	ML-553	Crush Tester	BCT-01		Simplo	2022/3/23	2023/4/23	
V	ML-866	Crush Tester	M0654		JYI SHENG	2022/3/23	2023/4/23	
V	ML-1083	Data Logger	1161	15~35 ℃; 30~80 %RH	TES	2021/9/13	2022/10/13	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2022/7/6	2022/8/6	

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Control Number: SLEU-2207005

SMP SIMPLO TECHNOLOGY CO., LTD.

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Revised Date: 2022-07-27

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	2022/4/28	2023/5/28	
	ML-484	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2022/4/28	2023/5/28	
	ML-904	Programmable DC Source	DS10014-MO	1-100Vdc, 0.3-14.4A	B&K Precision	2022/4/28	2023/5/28	
	ML-487	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2022/4/28	2023/5/28	
V	ML-488	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2022/4/28	2023/5/28	
V	ML-1083	Data Logger	1161	15~35 ℃; 30~80 %RH	TES	2021/9/13	2022/10/13	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2022/7/6	2022/8/6	
	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2022/7/6	2022/8/6	
V	ML-918	Overcharge & Forced discharge tester	T901	3~30 Vdc, Charge: 0.05~20A Discharge: 0.02~10A	SMP	2022/4/28	2023/5/28	
T.8 Forced Discharge								
V	ML-894	Battery Hitester	BT3562	10mΩ ~ 30kΩ	HIOKI	2022/4/14	2023/5/14	
	ML-132	Electronic Load	3311C	60V,60A, 300W	Prodigit	2022/1/25	2023/2/25	
	ML-133	Electronic Load	3311C	60V,60A, 300W	Prodigit	2022/1/25	2023/2/25	
	ML-136	Electronic Load	3311C	60V,60A, 300W	Prodigit	2022/1/25	2023/2/25	
	ML-192	Electronic Load	3311C	60V,60A, 300W	Prodigit	2022/1/25	2023/2/25	
	ML-269	Electronic Load	3311C	60V,60A, 300W	Prodigit	2022/1/25	2023/2/25	
	ML-532	DC Electronic Load	33511-01	120V, 240A, 3600W	Prodigit	2022/5/30	2023/6/30	
	ML-482	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2022/4/28	2023/5/28	
	ML-484	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2022/4/28	2023/5/28	
	ML-904	Programmable DC Source	DS10014-MO	1-100Vdc, 0.3-14.4A	B&K Precision	2022/4/28	2023/5/28	
	ML-487	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2022/4/28	2023/5/28	
	ML-488	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2022/4/28	2023/5/28	
V	ML-1083	Data Logger	1161	15~35 ℃; 30~80 %RH	TES	2021/9/13	2022/10/13	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2022/7/6	2022/8/6	
	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2022/7/6	2022/8/6	
V	ML-918	Overcharge & Forced discharge tester	T901	3~30 Vdc, Charge: 0.05~20A Discharge: 0.02~10A	SMP	2022/4/28	2023/5/28	
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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Control Number: SLEU-2207005

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

UN 38.3 Test Datasheet
 UN38.3/ST/SG/AC.10/11/Rev.7

Control Number: SLEU-2207005	Customer: Lenovo	Model Name: L22M3PG1	SMP Project Name: Chrome 14e Gen3
Pack P/N: 928QA535H (A)(B)	Configuration: 3S1P	Test Duration: 2022/07/11~2022/07/27	Reviewer: Esmond
Cell Vendor: ATL	Cell Model: 605490H	Cell P/N: 110-1408H	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: 2022/07/18 08:45	Ambient temp.: 23.9 °C								Operator: Rasner
Finish time: 2022/07/18 15:50	Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08	
OCV (V)	Before	12.697	12.634	12.658	12.630	12.676	12.692	12.655	12.693
	After	12.677	12.621	12.641	12.616	12.658	12.680	12.640	12.677
	Residual OCV %	99.84%	99.90%	99.87%	99.89%	99.86%	99.91%	99.88%	99.87%
Mass (g)	Before	225.625	225.258	225.443	225.617	225.361	225.290	225.549	225.572
	After	225.619	225.252	225.438	225.609	225.354	225.284	225.541	225.564
	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: 2022/07/18 16:11	Ambient temp.: 24.3 °C								Operator: Rasner
Finish time: 2022/07/25 09:49	Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08	
OCV (V)	Before	12.677	12.621	12.641	12.616	12.658	12.680	12.640	12.677
	After	12.532	12.472	12.498	12.469	12.518	12.531	12.496	12.530
	Residual OCV %	98.86%	98.82%	98.87%	98.83%	98.89%	98.82%	98.86%	98.84%
Mass (g)	Before	225.619	225.252	225.438	225.609	225.354	225.284	225.541	225.564
	After	225.597	225.236	225.421	225.589	225.336	225.268	225.524	225.545
	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: 2022/07/25 10:12	Ambient temp.: 24.1 °C								Operator: Rasner
Finish time: 2022/07/26 08:56	Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08	
OCV (V)	Before	12.532	12.472	12.498	12.469	12.518	12.496	12.510	
	After	12.504	12.449	12.468	12.443	12.498	12.502	12.473	
	Residual OCV %	99.78%	99.82%	99.76%	99.79%	99.84%	99.77%	99.82%	
Mass (g)	Before	225.597	225.236	225.421	225.589	225.336	225.268	225.524	
	After	225.591	225.228	225.416	225.583	225.329	225.264	225.519	
	Mass loss %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Results	P	P	P	P	P	P	P		

T.4 Shock

Start time: 2022/07/26 09:19	Ambient temp.: 24.0 °C								Operator: Rasner
Finish time: 2022/07/26 14:48	Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08	
OCV (V)	Before	12.504	12.449	12.468	12.443	12.498	12.502	12.473	
	After	12.492	12.436	12.460	12.437	12.488	12.497	12.463	
	Residual OCV %	99.90%	99.90%	99.94%	99.95%	99.92%	99.96%	99.92%	
Mass (g)	Before	225.591	225.228	225.416	225.583	225.329	225.264	225.519	
	After	225.585	225.222	225.411	225.577	225.326	225.260	225.516	
	Mass loss %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Results	P	P	P	P	P	P	P		

Form No. : W11-002-B05

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Control Number: SLEU-2207005

T.5 External Short Circuit

Start time: 2022/07/26 15:11		Ambient temp.: 24.4 °C						Operator: Rasner	
Finish time: 2022/07/27 08:55		Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	12.492	12.436	12.460	12.437	12.488	12.497	12.463	12.503
	After	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Resistance (<100mΩ)		66.6	65.9	69.8	73.2	70.5	68.4	72.5	69.1
Max Temp. (< 170°C)		57.4	57.7	57.4	57.3	57.4	57.5	57.2	57.3
Results		P	P	P	P	P	P	P	P

T.6 Impact / Crush (Component Cell)

UN38.3/ST/SG/AC.10/11/Rev.7

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: 2022/07/19 13:16		Ambient temp.: 24.3 °C				Operator: Rasner	
Finish time: 2022/07/20 08:51		Sample 01C	Sample 02C	Sample 03C	Sample 04C	Sample 05C	Sample 06C
Initial OCV (V)		3.806	3.800	3.794	3.803	3.799	3.799
Max Temp. (< 170°C)		24.4	24.3	24.3	24.3	24.5	24.5
Results		P	P	P	P	P	P
Sample No.		Sample 06C	Sample 07C	Sample 08C	Sample 09C	Sample 10C	Sample 10C
Initial OCV (V)		3.792	3.797	3.805	3.800	3.803	3.803
Max Temp. (< 170°C)		24.3	24.4	24.4	24.3	24.3	24.3
Results		P	P	P	P	P	P

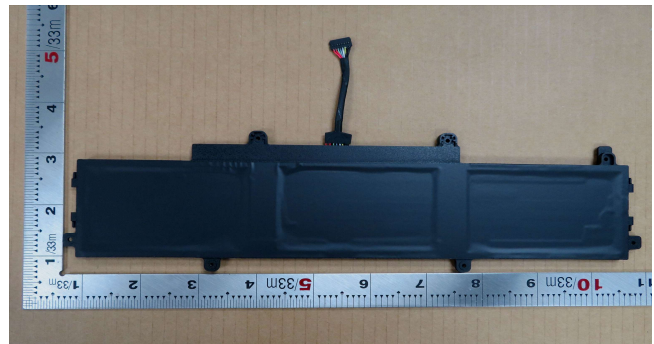
T.7 Overcharge

Start time: 2022/07/18 10:18		Ambient temp.: 24.1 °C						Operator: Rasner	
Finish time: 2022/07/26 11:26		Sample 09	Sample 10	Sample 11	Sample 12	Sample 13	Sample 14	Sample 15	Sample 16
Initial OCV (V)		12.698	12.634	12.658	12.636	12.673	12.692	12.653	12.688
Results		P	P	P	P	P	P	P	P

T.8 Forced Discharge (Component Cell)

Start time: 2022/07/19 09:00		Ambient temp.: 24.1 °C								Operator: Rasner	
Finish time: 2022/07/27 10:46		Sample 11C	Sample 12C	Sample 13C	Sample 14C	Sample 15C	Sample 16C	Sample 17C	Sample 18C	Sample 19C	Sample 20C
Initial OCV (V)		3.434	3.418	3.413	3.420	3.437	3.445	3.421	3.449	3.411	3.442
Results		P	P	P	P	P	P	P	P	P	P
Sample No.		Sample 21C	Sample 22C	Sample 23C	Sample 24C	Sample 25C	Sample 26C	Sample 27C	Sample 28C	Sample 29C	Sample 30C
Initial OCV (V)		3.411	3.442	3.435	3.417	3.410	3.447	3.440	3.436	3.419	3.412
Results		P	P	P	P	P	P	P	P	P	P
Sample No.		Sample 27C	Sample 28C	Sample 29C	Sample 30C						
Initial OCV (V)		3.419	3.412	3.430	3.427						
Results		P	P	P	P						

9. Test Sample:



Form No. : W11-002-B05

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