

报告编号(Report No.): S-21116285A0

检测报告 TEST REPORT

NAME OF SAMPLE: RECHARGEABLE LITHIUM ION POLYMER BATTERY

产品名称: 锂离子聚合物电池组/二次鋰電池組

CLIENT: SUNWODA Electronic Co., Ltd.

委托单位: 欣旺达电子股份有限公司

CLASSIFICATION OF TEST: Commission test

检测类别: 委托测试

深圳普瑞赛思检测技术有限公司 Shenzhen Precise Testing Technology Co., Ltd.



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Report No.: S-21116285A0 Page 2 of 15 Applicant information 申请资料 RECHARGEABLE LITHIUM ION POLYMER BATTERY Name of samples: 样品名称: 锂离子聚合物电池组/二次鋰電池組 Type/ Model: NE50 3.87V 4700mAh 18.2Wh(RATED) 5000mAh 19.4Wh(TYPICAL) 型号规格: Lithium content:: 锂含量: Trade mark: 商标: Sunwoda Electronic Co., Ltd. Commission by: 委托单位: 欣旺达电子股份有限公司 Floor 1.A & B & D District of Floor 2 and Floor 3 to 9 of Comprehensive Building, No.2 Yihe Road, Shilong Community, Shiyan Street, Bao'an District, Commissioner address: Shenzhen City, Guangdong Province, P.R. China 委托单位地址: 中国广东省深圳市宝安区石岩街道石龙社区颐和路2号综合楼1楼、2楼A-B 区、2楼D区-9楼 Shenzhen Sunwoda Intelligence Technology Co., Ltd. First Branch Manufacturer: 深圳欣旺达智能科技有限公司第一分公司 生产单位: Floor 1 & 5 of Building B, Floor 1 to 5 of Building C, TongFuKang, Changcheng Road. Shuitian Community, Shiyan Street, Bao'an District, Shenzhen City, Manufacturer address: Guangdong Province, P.R. China 生产单位地址: 中国广东省深圳市宝安区石岩街道水田社区长城路同富康水田工业区B 栋厂房一层、五层、C栋1-5层 Appearance: Silver 样品外观颜色: 银色 Sample Type Rechargeable Li Polymer Single Cell Battery 样品类型 可充式锂聚合物单电芯电池 Sample status: Good

测试完成日期: Conclusion/结论:

样品状态:

样品数量:

接样日期: Testing date:

样品标识序号: Receiving date:

测试开始日期:
Completing date:

Quantity of sample:

Sample identification:

The submitted samples comply with the requirements of UNITED NATIONS Section 38.3 of the seventh revised edition of the Recommendations on the Transport of Dangerous Goods, Manual of Test and Criteria(ST/SG/AC.10/11/Rev.7/Section 38.3)

样品符合联合国《关于危险货物运输的建议书试验和标准手册》第七修订版第38.3节的要求。

Seal/报告专用章:

Date of issue: 2021-12-06

Prepared by 报告编写: 名艺献

完好

48pcs

c1# ~c48#

2021-11-18

2021-11-20

2021-12-03

Reviewed by: 夏 北安2

夏 **沙·安** Approved by: 报告批准:





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	Test Conclusion测试结论				
No. 序号	Name of test 测试项目名称	Test result 测试结果	Conclusion 本项结论		
1	Altitude simulation 高度模拟	See Appendix 1	Р		
2	Thermal test 温度测试	See Appendix 2	Р		
3	Vibration 振动	See Appendix 3	Р		
4	Shock 冲击	See Appendix 4	Р		
5	External Short-circuit 外部短路	See Appendix 5	Р		
6	Crush 挤压	See Appendix 6	Р		
o o	Impact 撞击	See Appendix 6	N/A		
7	Overcharge 过度充电	See Appendix 7	Р		
8	Forced discharge 强制放电	See Appendix 8	Р		



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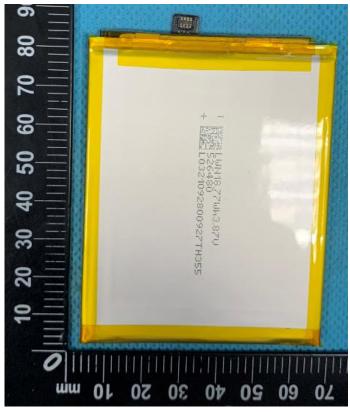
Photos of samples and markings

样品及标识照片

Battery (NE50 3.87V 4700mAh 18.2Wh(RATED) 5000mAh 19.4Wh(TYPICAL))









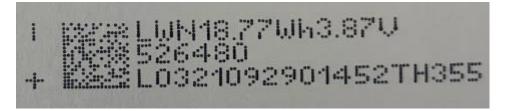
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Photos of samples and markings

样品及标识照片

CELL(526480 3.87V 4850mAh 18.77Wh)









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Appendix 1
附表 1

Test Items 测试项目 Altitude simulation 高度模拟

1.1 Test procedure 测试步骤

Test cells and batteries shall be stored at a pressure of 11.6kPa or less for at least six hours at ambient temperature (20±5℃). 试验电池芯和电池在环境温度(20±5℃)下,储存在小于等于11.6kPa的压力下至少六小时。

1.2 Sample status 样品状态

c1# ~ c5#, at first cycle in fully charged states; c6# ~ c10#, after 25 cycles ending in fully charged

c1#~c5#, 在第一个循环完全充电; c6#~c10#, 在第25个循环完全充电。 1.3 Result 测试结果

Before Test测试前 After Test测试后 Residual Mass loss Test Sample No. OCV 质量损失 result 样品编号 剩余电压 Mass Voltage Mass Voltage 测试结果 (%) (≥90%) 开路电压 开路电压 样品质量 样品质量 (g) (V) (g) (V) 64.631 4.409 64.630 4.397 0.002 99.73 0 c1# c2# 64.547 4.410 64.547 4.398 0.000 99.73 0 64.457 64.457 4.409 4.399 0.000 99.77 c3# 0 4.407 64.777 0.000 c4# 64.777 4.396 99.75 0 c5# 64.852 4.409 64.852 4.399 0.000 99.77 0 64.472 4.407 64.472 4.396 0.000 c6# 99.75 0 64.581 4.409 4.399 0.000 c7# 64.581 99.77 0 64.469 4.407 4.398 0.000 c8# 64.469 99.80 0 4.409 4.399 0.000 c9# 64.632 64.632 99.77 0 4.410 c10# 65.160 65.160 4.399 0.000 99.75 0

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



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Report No.: S-21116285A0 Page 7 of 15 Appendix 2 附表 2 Thermal test Test Items 测试项目 温度测试 Test procedure 1.1 测试步骤 Test cells and batteries are to be stored for at least six hours at a test temperature equal to 72±2°C, followed by storage for at least six hours at a test temperature equal to -40±2°C, The maximum time interval between test temperature extremes in 30 minutes, This procedure is to be repeated until 10 total cycles are complete, after which all test cells and batteries are to be stored for 24 hours at ambient temperature (20±5°C). 将电芯和电池在温度为72±2℃的条件下贮存不少于6个小时,然后,在温度-40±2℃条件下贮存不少 于6个小时,两个温度间的间隔最长为30min,重复操作上述步骤直到10次,然后,将其在环境温度为 20±5℃的条件下放置24个小时。 1.2 Sample status 样品状态 c1# ~ c5#, at first cycle in fully charged states; c6# ~ c10#, after 25 cycles ending in fully charged c1#~c5#,在第一个循环完全充电;c6#~c10#,在第25个循环完全充电。 Result 1.3 测试结果 Before Test测试前 After Test测试后 Residual Mass loss Test Sample No. OCV Voltage Voltage 质量损失 Mass Mass result 样品编号 剩余电压 开路电压 开路电压 测试结果 样品质量 样品质量 (%) (≥90%) (V) (V) (g) (g) 64.630 4.397 64.618 4.310 0.019 98.02 0 c1# 64.547 4.398 64.534 4.312 0.020 98.04 0 c2# c3# 64.457 4.399 64.447 4.310 0.016 97.98 0 64.777 4.396 64.770 4.310 0.011 98.04 0 c4# c5# 64.852 4.399 64.844 4.312 0.012 98.02 0 64.472 4.396 4.310 c6# 64.463 0.014 98.04 0 c7# 64.581 4.399 64.570 4.311 0.017 98.00 0 64.469 64.460 4.311 0.014 0 c8# 4.398 98.02 c9# 64.632 4.399 64.622 4.310 0.015 97.98 0 c10# 65.160 4.399 65.154 4.312 0.009 98.02 0

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



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Appendix 3

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	Appendix 5
	附表 3
Test Items 测试项目	Vibration 振动
1.1	Test procedure 测试步骤
	Cells and batteries are firmly secured to the platform of the vibration machine without distorting the cells in such a manner as to faithfully transmit the vibration, The vibration shall be a sinusoidal wave form with a logarithmic sweep between 7 Hz and 200 Hz and back to 7 Hz traversed in 15 minutes, This cycle shall be repeated 12 times for a total of 3 hours for each of three mutually perpendicular mounting position of the cell. 将电芯和电池车固地安装在振动台的台面上,然后开始振动。振动以正弦波形式,以7Hz增加至200Hz,然后再减少回到7Hz为一个循环,一个循环持续15分钟的对数扫频。每个电芯和电池从三个互相垂直的方向上循环12次,3个小时。
1.2	Sample status 样品状态
	c1# ~ c5#, at first cycle in fully charged states; c6# ~ c10#, after 25 cycles ending in fully charged stares.

c1#~c5#,在第一个循环完全充电;c6#~c10#,在第25个循环完全充电。 Result 1.3

测试结果

After Test测试后 Before Test测试前 Residual Mass loss Test Sample No. OCV 质量损失 result 样品编号 剩余电压 Voltage Voltage Mass Mass 测试结果 (%) (≥90%) 开路电压 开路电压 样品质量 样品质量 (V) (V) (g) (g) c1# 64.618 4.310 64.618 4.309 0.000 99.98 0 64.534 4.312 64.534 99.98 0 c2# 4.311 0.000 64.447 4.310 0 c3# 64.447 4.309 0.000 99.98 c4# 64.770 4.310 64.770 4.309 0.000 99.98 0 4.312 c5# 64.844 64.844 4.311 0.000 99.98 0 c6# 64.463 4.310 64.463 4.309 0.000 99.98 0 0 c7# 64.570 4.311 64.570 4.310 0.000 99.98 c8# 64.460 4.311 64.460 4.310 0.000 99.98 0 64.622 4.310 64.622 4.309 0.000 99.98 0 c9# 4.312 0 c10# 65.154 65.154 4.311 0.000 99.98

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



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Report No.: S-21116285A0 Page 9 of 15 Appendix 4 附表 4 Shock Test Items 测试项目 冲击 Test procedure 1.1 测试步骤 Test cells and batteries shall be secured to the testing machine, and each cell shall be subjected to a half-sine shock of peak acceleration of 150qn and pulse duration of 6 milliseconds. Large cells may be subjected to a half-sine shock of peak acceleration of 50gn and pulse duration of 11 milliseconds. Small batteries shall be subjected to a half-sine shock of peak acceleration of 150gn (or Acceleration(g_n)= $\sqrt{\frac{100850}{mass}}$, which is smaller) and pulse duration of 6 milliseconds, large batteries shall be subjected to a half-sine of peak acceleration of $50g_n$ (or Acceleration(g_n)= $\sqrt[3]{\frac{30000}{mass}}$, which is smaller)and pulse duration of 11 milliseconds. Each cell or battery shall be subjected to three shocks in the positive direction followed by three shocks in the negative direction of three mutually perpendicular mounting positions of the cell or battery for a total of 18 shocks 以稳固的托架固定住每个电芯和电池样品的全部配件表面。对每个电芯以峰值为150gn的半正弦的加 速度撞击,脉冲持续6毫秒,大型电芯须经受最大加速度50gn和脉冲持续时间11毫秒的半正弦波冲击。 对每个电池以峰值为150gn(或与⁽¹⁰⁸⁸⁰⁾中的较小值)的半正弦的加速度撞击,脉冲持续6毫秒,大型 电池组须经受最大加速度50qn(或与³⁰⁰⁰中的较小值)和脉冲持续时间11毫秒的半正弦波冲击。每个 电池或电池组须在三个互相垂直的电池安装方位的正方向经受三次冲击,接着在反方向经受三次冲 击,总共经受18次冲击。 1.2 Sample status 样品状态 c1# ~ c5#, at first cycle in fully charged states; c6# ~ c10#, after 25 cycles ending in fully charged c1#~c5#,在第一个循环完全充电;c6#~c10#,在第25个循环完全充电。 Result 1.3 测试结果 Before Test测试前 After Test测试后 Residual Mass loss Test Sample No. OCV 质量损失 Mass result Mass Voltage Voltage 样品编号 剩余电压 样品质量 测试结果 开路电压 开路电压 样品质量 (%) (≥90%) (g) (V) (V) (g) 64.618 4.309 64.618 4.309 0.000 100.00 0 c1# 64.534 c2# 64.534 4.311 4.310 0.000 99.98 0 c3# 4.309 0.000 0 64.447 64.447 4.309 100.00 c4# 64.770 4.309 64.770 4.307 0.000 99.95 0 c5# 64.844 4.311 64.844 4.311 0.000 100.00 0 64.463 4.309 64.463 4.309 0.000 100.00 0 c6# c7# 64.570 4.310 64.570 4.310 0.000 100.00 0 64.460 4.310 64.460 4.309 99.98 c8# 0.000 0 c9# 64.622 4.309 64.622 4.309 0.000 100.00 0 4.311 65.154 0.000 c10# 4.310 99.98

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



Over temperature

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	Appendi			
)		
Test Items 测试项目	External short circuit 外部短路			
1.1	Test procedure 测试步骤			
	The cell or battery to be tested shall be tentemperature reaches 57±4℃ and then the condition with a total external resistance of condition is continued for at least one hour has returned to 57±4℃, the cell or battery to be concluded. 保持试验环境温度稳定在57±4℃,以使电流下,将其正负极用小于0.1欧姆的线路短接,1小时以上,对电芯或电池必须进一步观察	cell or battery shall be subject less than 0.1 ohm at 57±4℃ after the cell or battery externmust be observed for a furthet contained by the	eted to a short circuit , This short circuit nal case temperature er six hour for the tes ⊶4℃,然后,在此温	
1.2	Sample status 样品状态			
1.3	c1# ~ c5#, at first cycle in fully charged starcharged stares. c1# ~ c5#, 在第一个循环完全充电; c6# ~ Result 测试结果	•		
Sample No. 样品编号	Max. External Temperature 样品表面最高温度 (℃)	Test result 测试结果	Remark 备注	
c1#	57.5	0	/	
c2#	57.4	0	/	
c3#	57.4	0	/	
65#	_			
c4#	57.5	0	/	
		0	/	
c4#	57.5		/ /	
c4# c5#	57.5 57.4	0	/	
c4# c5# c6#	57.5 57.4 57.5	0	/	
c4# c5# c6# c7#	57.5 57.4 57.5 57.5	0 0 0	/	

Note: **D** –Disassembly, **R** –Rupture, **F** –Fire, **OT** –Over Temperature, **O** –no disassembly, no rupture, no fire, no

D- 解体; R- 破裂; F- 起火; OT- 超过170℃; O- 无解体、无破裂、无起火、不超过170℃



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	Appendix 6			
	附表 6			
Test Items	Crush 挤压/Impact 撞击			
测试项目				
1.1	Test procedure			
	测试步骤			
	☑ Crush 挤压			
	A cell or component cell is to be crushed between two flat surfaces. The crushing is			
	to be gradual with a speed of approximately 1.5 cm/s at the first point of contact. The			
	crushing is to be continued until the first of the three options below is reached.			
	(a) The applied force reaches 13kN±0.78kN;			
	(b) The voltage of the cell drops by at least 100 mV; or			
	(c) The cell is deformed by 50% or more of its original thickness.			
	Once the maximum pressure has been obtained, the voltage drops by 100mV or more, or the cell is deformed by at least 50% of its original thickness, the pressure			
	shall be released.			
	电池芯或组成电池芯在两个平面间挤压。挤压在第一个接触点以约1.5cm/s 的速度慢			
	慢进行,直到下面三个选项之一达到为止:			
	(a)作用力达到 13kN±0.78kN;			
	(b)电池芯电压降至少达到100mV;			
	(c)电池厚度和最初比较变形至少50%。			
	一旦达到最大压力,电压降超过100 mV或者电池芯变形超过50%,压力应该解除。			
	□ Impact 撞击			
	(applicable to cylindrical cells not less than 18mm in diameter)			
	The sample cell or component cell is to be placed on a flat smooth surface. A 15.8			
	mm \pm 0.1 mm diameter, at least 6 cm long, or the longest dimension of the cell,			
	whichever is greater, Type 316 stainless steel bar is to be placed across the centre			
	of the sample. A 9.1 kg \pm 0.1 kg mass is to be dropped from a height of 61 \pm 2.5 cm			
	at the intersection of the bar and sample in a controlled manner using a near			
	Frictionless, vertical sliding track or channel with minimal drag on the falling mass.			
	The vertical track or channel used to guide the falling mass shall be oriented 90			
	degrees from the horizontal supporting surface.			
	The test sample is to be impacted with its longitudinal axis parallel to the flat surface			
	and perpendicular to the longitudinal axis of the 15.8 mm ± 0.1 mm diameter curved			
	surface lying across the centre of the test sample. Each sample is to be subjected to			
	only a single impact.			



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	Appendix 6 附表 6	5			
Test Items	Crush 挤压/Impact 撞击				
测试项目	Ordon 加速mpdot 達出				
	Cells and component cells meet this	requirement if their extern	al temperature does		
	not exceed 170°C and there is no disassembly and no fire during the test and within				
	six hours after this test.				
	(适用于直径不小于18毫米的圆柱形电池)将电池或元件电池样品平放在一个平面」 其纵轴平行于测试台面年,将一直径为15.8mm±0.1 mm的316型不锈钢棒横放在电池 心位置。然后,将一质量为9.1kg±0.1kg的物体从61±2.5 cm的高度落向样品。样 在进行试验时,其外表温度应不超过170℃。且试验结束后6个小时之内,样品应无 体、无起火现象发生。				
1.2 Sample status					
	样品状态				
	cycles ending at 50% of the design ra	c11# ~ c15#, at first cycle at 50% of the design rated capacity; c16# ~ c2c cycles ending at 50% of the design rated capacity. c11# ~ c15#, 在第一个循环50%的额定容量; c16# ~ c20#, 在第25个循环50%			
1.3	T 里。 Result				
	测试结果				
Sample No.	Max. External Temperature	Test result	Remark		
样品编号	样品表面最高温度(℃)	测试结果	备注		
c11#	23.6	0	/		
c12#	23.6	0	/		
c12# c13#	23.6	0	/		
			/ /		
c13#	23.5	0	/ / /		
c13# c14#	23.5	0	/ / /		
c13# c14# c15#	23.5 23.7 23.5	0 0 0	/ / / /		
c13# c14# c15# c16#	23.5 23.7 23.5 23.7	0 0 0	, , , , , , , , , , , , , , , , , , ,		
c13# c14# c15# c16# c17#	23.5 23.7 23.5 23.7 23.5	0 0 0 0	, ·		

Note: ${\bf D}$ -Disassembly, ${\bf R}$ -Rupture, ${\bf F}$ -Fire, ${\bf OT}$ -Over Temperature, ${\bf O}$ - no disassembly, no fire, no Over temperature

注: D- 解体; R- 破裂; F - 起火; OT- 超过170℃; O-无解体、无起火、不超过170℃



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	Appendix 7	7		
	附表 7			
Test Items 测试项目	Overcharge 过度充电			
1.1	Test procedure 测试步骤			
	When the manufacturer's recommended voltage of the test shall be the lesser of the 22V,whichever is less. When the manufation 18V, the charging voltage of the test shall be current is 2 times of the maximum charging 如果厂家推荐的充电电压不超过18V,本注电电压或者是22V,取其中较小者。如果从倍的厂家标定最大充电电压。充电电流为	wo times the maximum cha acturer's recommended cha be 1.2 times maximum charg ng current recommended b 则试的最小充电电压应该是 厂家推荐的充电电压超过18	arge voltage of the or rge voltage is more than ge voltage. The charging by the manufacturer。 两倍的厂家标定最大充设,充电电压应该为 1.2	
1.2	Sample status 样品状态			
	c21# ~ c24#, at first cycle in fully charged charged states. c21# ~ c24#, 在第一个循环完全充电;	·		
1.3	Result 测试结果			
Sample No. 样品编号	Voltage Before test(V) 测试前开路电压(V)	Test result 测试结果	Remark 备注	
c21#	4.407	О	1	
c22#	4.406	0	1	
c23#	4.409	0	1	
c24#	4.407	O	/	
c25#	4.408	0 /		
c26#	4.409	О	/	
c27#	4.407	o	/	
c28#	4.408	0	/	

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

注: D- 解体; F- 起火; O-无解体、无起火。



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-		Append 附表			
Test Items 测试项目	Forced discharge 强制放电	PIJ 4X	0		
1.1	Test procedure 测试步骤				
	12V D. C, power supp the manufacturer The load of the approprial discharged for a time current(in ampere). 在20±5℃的环境温度 每个电芯初始电流为制	oly at an initial cur e specified discha te size and rating e interval(in hours 下,将单个电芯连	rent equal to the arge current is to g in series with s) equal to its ra 接在12V的直流	erature by connecting it a maximum discharge contained by connecting the test cell, Each cell ated capacity divided but the test cell with the test cell ated capacity divided but the contained but the containe	current specified ecting a resistive shall be forced by the initial test 此直流电源提供
1.2	Sample status 样品状态				
	fully discharged state	S.		39# ~ c48#, after 25 cy 在第25个循环完全放电	
1.3	测试结果				
Sample No. 样品编号	Voltage Before test 测试前开路电压 (V)	Test result 测试结果	Sample No. 样品编号	Voltage Before test 测试前开路电压 (V)	Test result 测试结果
c29#	3.329	0	c39#	3.329	0
c30#	3.337	0	c40#	3.324	0
c31#	3.322	0	c41#	3.333	0
c32#	3.319	0	c42#	3.334	0
c33#	3.333	0	c43#	3.319	0
c34#	3.319	0	c44#	3.326	0
c35#	3.327	0	c45#	3.320	0
c36#	3.331	0	c46#	3.318	0
c37#	3.321	0	c47#	3.327	0
c38#	3.334	0	c48#	3.332	0

Note: ${\bf D}$ -Disassembly, ${\bf F}\text{-}{\bf Fire},\,{\bf O}\text{-}$ no disassembly, no fire.

注: D- 解体; F- 起火; O-无解体、无起火。



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注意事项

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Important Information

1. 本报告无批准人签名和"报告专用章"无效。
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- 5. 本报告检测结果仅对受试样品有效。
 The results shown in the report only apply to the sample(s) as tested.
- 6. 本检测结果中"N/A"表示"不适用","P"表示"通过","F"表示"不通过"。 As for the test result "N/A" means "Not Applicable", "P" means "Pass" and "F" means "Fail".

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