中国认可 国际互认 检测 TESTING CNAS L6791



检测报告

TEST REPORT

委托单位 Client Name RealMe 重庆移动通信有限公司

Realme Chongqing Mobile Telecommunications Corp.,Ltd.

制造厂商 Manufacturer RealMe 重庆移动通信有限公司

Realme Chongqing Mobile

Telecommunications Corp., Ltd.

产品名称 Product Name 真我Buds Air 2 Neo 充电盒

realme Buds Air 2 Neo Charging Case

型号规格 Model & Specification

RMA2008 3.7V,400mAh,1.48Wh

Input:5V ___ 0.5A

检测类别

委托测试

Test Sort

Entrusted Test



深圳市巴伦技术股份有限公司 Shenzhen BALUN Technology Co., Ltd.

地址/Address

深圳市南山区沙河西路白沙新兴产业园1栋1楼B区

Block B, FL 1, Building 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan

District, Shenzhen, Guangdong Province, P. R. China

电话/Telephone

+86 755 66850100

邮编/Postcode

518055

网站/Website

www.baluntek.com

邮箱/E-mail

qc@baluntek.com



深圳市巴伦技术股份有限公司							
检 测 报 告							
Applicant's name	Realme Chongqing Mobile Telecommu	ınications Corp	o.,Ltd.				
委托单位名称							
Address	No.178 Yulong Avenue, Yufengshan,	Yubei District,C	Chongqing, China				
	重庆市渝北区玉峰山镇玉龙大道178号						
Testing Laboratory	Shenzhen BALUN Technology Co., Ltd	l					
测试实验室	深圳市巴伦技术股份有限公司						
Testing Location	Block B, 1st FL, Baisha Science and Te Nanshan District, Shenzhen, 518055, F	echnology Parl P.R. China	k, Shahe Xi Road,				
测试地点:			B区				
Test method and criterion: 测试方法和判定标准	ST/SG/AC 10/11/Pov 6/Amond 1 Social						
Date(s) of performance of tests : 测试时间	12020 11 05 2020 11 19						
Name of samples/样品名称:	realme Buds Air 2 Neo Charging case 真我Buds Air 2 Neo 充电盒	Trade Mark/ 商标:	1				
Model/型号	RMA2008	Ratings/额定 参数:	3.7V,400mAh,1.48Wh Input:5V===0.5A				
Apperance:	60.0*44.5*33.0mm, Black and gray pris	matic. Weighs	approx. 35.98g.				
样品外观:	60.0*44.5*33.0mm,黑色和灰色方形,	重约35.98g。					
	Single cell lithium-ion battery/单芯锂离						
	Realme Chongqing Mobile Telecommu	nications Corp.	.,Ltd.				
制造商名称:							
	No.178 Yulong Avenue, Yufengshan,Y	ubei District,C	hongqing, China				
	重庆市渝北区玉峰山镇玉龙大道178号						
	Jiangxi Lianchuang Hongsheng Electro	nic Co., Ltd.					
生产厂名称:							
Address of Factory (ies):	No.1699,Jingdong Avenue,High-tech In District,Nanchang City,Jiangxi,P.R. Chir	dustry Develop าล	oment Zone,Qingshanhu				
生产厂地址:	江西南昌市高新技术开发区京东大道169	9号					
Conclusion	The sample has passed the test items of UNITED NATIONS						
	(後側报告章) (Test Report Stamp) 签发日期/ Issued Date: 101 1						
主检 /Tested by: 英海仪 赖湘仪	审核 /Checked by:	推進: peroved という。	by: 林幸第 (副总经理)				



esc	cripti	on and	illustr	ation	of the samp	ole: Larg	e cells and b	atteries	⊠ Small ce	lls and batt	eries			
作品说明及描述: □ Primary (Prim	ary cells and	d batteries	□ Recharg	eable cells	and batte	ries		
	Parameter		Nominal capacity		capa		Nominal voltage	Nominal Charge Current	Nominal Discharge Current	Maximum Charge Current	Maximum Discharge Current	Limited Charge Voltage	Cut-off Voltage	
	参	参数	额定	容量	标称电压	标准充电 电流	标准放电 电流	最大充电 电流	最大放电 电流	充电限制 电压	放电截止 电压	-		
		oduct 戈品	400r	mAh	3.7V	80mA	80mA	400mA	400mA	5.2V	3.0V			
		Cell 电芯	400r	mAh	3.7V	80mA	80mA	400mA	400mA	4.2V	3.0V			
		Test i 测试项			mle No. 品编号		Sta 状	ate 态		Rema 备注				
				ВС	1~B05	at firs	st cycle, in fu 一次循环的		state					
		T1~	1~T5 after twenty five cycles ending in fully charged state 二十五次循环后完全满电状态;											
				CO	1~C05	at first cycle	at 50% of tl 一次循环50%							
		Т6	3	CO	06~C10		design rate	five cycles ending at 50% of the design rated capacity 五次循环50%满电状态;						
				B1	1~B14	at fire		cycle, in fully charged state 一次循环的满电状态;						
		T7	•	B1	5~B18		after twenty five cycles ending in fully charged state 二十五次循环后完全满电状态;							
				C1	1~C20	at first	cycle, in full 一次循环后完	cle, in fully discharged state 循环后完全放电状态;						
		Т8	3	C2	21~C30	after twenty five cycles ending in fully discharged state 二十五次循环后完全放电状态。				es ending in fully discharged state				
		test cas		dicts:	<u> </u>									
test	cas		not ap			oject								
test	验样品不适用该条款: est object does meet the requirement:						:	:						
test	验样品满足要求est object does not meet the requirement:					: [(Tass)								
式验:	样品	不满足	要求				: ' (' all)							
	emark: 注:						name RM the batte 此产品同	MA2008, the ry. Test data 时还有另一 .池名称不一	re anothor ba y are all the s a based on re 个型号名同样 样外皆相同。	ame excep port: BL-SZ ∮为RMA20	t for the na 220B0100- 08的电池林	ame of 301. 示签,		



ST/SG/AC.10/11/Rev.6/ Amend.1 Section 38.3									
Clause	Requirement	Result	Verdict						
章节	标准要求	测试结果	判定						

1 무	你但女不	例以归未	判定		
38.3 Lithiur	m batteries / 锂电池				
38.3.4	Procedure / 测试步骤		Р		
	Tests T.1 to T.5 shall be conducted in sequence on the same cell or battery. Tests T.6 and T.8 shall be conducted using not otherwise tested cells or batteries. Test T.7 may be conducted using undamaged batteries previously used in Tests T.1 to T.5 for purposes of testing on cycled batteries. 小型电池或电池组应按顺序进行试验T.1至T.5。试验T.6和T.8应使用未另外试验过的电池或电池组。试验T.7可以使用原先在试验T.1至T.5中使用过的未损坏电池组进行,以便测试经过充放电的电池组。				
	Test 1: Altitude simulation / 测试1: 高度模拟		Р		
	Test procedure / 测试步骤:				
	Test cells and batteries shall be stored at a pressure of six hours at ambient temperature (20 \pm 5) °C.	11.6 kPa or less for at least			
	试验电池和电池组应在压力等于或低于11.6千帕和环境温度(20±5℃)下存放至少6小时。				
38.3.4.1	Requirement / 标准要求 Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states. 如果无渗漏、无排气、无解体、无破裂和无起火,并且每个试验电池或电池组在试验后的开路电压不小于其在进行这一试验前电压的90%,电池和电池组即符合这一要求。有关电压的要求不适用于完全放电状态的试验电池和电池组。	The test results meet the requirements. See table 1. 测试结果符合要求。见表1。	Р		
	Test 2: Thermal test / 测试2: 热冲击				
38.3.4.2	Test procedure / 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 is 30 minutes. This procedure is to be repeated 10 times, after which all test cells and batteries are to be stored for 24 hours at ambient temperature (20 ± 5 °C). For large cells and batteries the duration of exposure to the test temperature extremes should be at least 12 hours. 试验电池和电池组应先在试验温度等于 72 ± 2 °C的条件下存放至少6小时,接着再在试验温度等于-40 ± 2°C的条件下存放至少6小时。两个极端试验温度之间的最大时间间隔为30分钟。此程序重复进行,共完成10次,接着将所有试验电池和电池组在环境温度 (20 ± 5 °C)下存放24小时。对于大型电池和电池组,暴露于极端试验温度的时间至少应为				
	12小时。 Requirement / 标准要求: Cells and batteries meet this requirement if there is no	The test results meet the requirements. See table 1.	<u> </u>		
	leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or	测试结果符合要求。见表1。	Р		



	ST/SG/AC.10/11/Rev.6/ Amend.1 Sec	etion 38.3	
Clause	Requirement	Result	Verdict
章节	标准要求	测试结果	判定
	battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states. 如果无渗漏、无排气、无解体、无破裂和无起火,并且每个试验电池或电池组在试验后的开路电压不小于其在进行这一试验前电压的90%,电池和电池组即符合这一要求。有关电压的要求不适用于完全放电状态的试验电池和电池组。		
	Test 3: Vibration / 测试3: 振动		Р
38.3.4.3	Test procedure / 测试步骤: Cells and batteries are firmly secured to the platform of distorting the cells in such a manner as to faithfully transm shall be a sinusoidal waveform with a logarithmic sweep b back to 7 Hz traversed in 15 minutes. This cycle shall be r of 3 hours for each of three mutually perpendicular mount of the directions of vibration must be perpendicular to the The logarithmic frequency sweep shall differ for cells an of not more than 12 kg (cells and small batteries), and for of more than 12 kg (large batteries). For cells and small batteries: from 7 Hz a peak acceleration 18 Hz is reached. The amplitude is then maintained at excursion) and the frequency increased until a peak acceleration of 8 gn is ther frequency is increased to 200 Hz. For large batteries: from 7 Hz to a peak acceleration of reached. The amplitude is then maintained at 0.8 mm (1.6 frequency increased until a peak acceleration of 2gn occur peak acceleration of 2gn is then maintained until the frequency increased until a peak acceleration of 2gn occur peak acceleration of 2gn is then maintained until the frequency increased until a peak acceleration of 2gn occur peak acceleration of 2gn occur peak acceleration of 2gn occur peak acceleration of 2gn is then maintained until the frequency increased until a peak acceleration of 2gn occur peak acceleration of 2	it the vibration. The vibration etween 7 Hz and 200 Hz and epeated 12 times for a total ing positions of the cell. One terminal face. d batteries with a gross mass batte	
	Requirement / 标准要求: Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire during the test and after the test and if the open circuit voltage of each test cell or battery directly after testing in its third perpendicular mounting position is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not	The test results meet the requirements. See table 1. 测试结果符合要求。见表1。	Р



		ST/SG/	AC.10/11/Rev.6/ Amend.1 Sect	tion 38 3					
Clause			uirement	Resu	ılt	Verdict			
章节	标准要求 测试结果								
	applicable to test cells and batteries at fully discharged states.								
	如果试验中和试验后无渗漏、无排气、无解体、无破裂和无起火,并且每个试验电池或电池组在第三个垂直安装方位上的试验后立即测得的开路电压不小于在进行这一试验前电压的90%,电池和电池组即符合本项要求。有关电压的要求不适用于完全放电状态的试验电池和电池组。								
	Test 4: Sho	ock/测试4: 冲i	击			Р			
	Test proced	lure / 测试步骤:							
			hall be secured to the testing managery		s of a rigid				
	pulse durati	on of 6 milliseco	ted to a half-sine shock of peak onds. Alternatively, large cells m ation of 50 g _n and pulse duration	ay be subjected	to a half-				
	on the mass batteries an	s of the battery. d 11 millisecond	jected to a half-sine shock of pe The pulse duration shall be 6 m ds for large batteries. The formu inimum peak accelerations.	illiseconds for sr	mall				
	three shock	s in the negative	be subjected to three shocks in e direction in each of three mutu ry for a total of 18 shocks.						
	Battery Minimum peak acceleration Pulse duration								
		Small batteries	150 g _n or result of formula $Acceleration(g_n) = \sqrt{\frac{100850}{mass*}}$	6 ms					
38.3.4.4			whichever is smaller						
70.3.4.4		Large batteries	50 g _m or result of formula $Acceleration(g_m) = \sqrt{\frac{30000}{mass*}}$	11 ms					
			whichever is smaller						
		* Mass is expressed in kilograms.							
	试验电池和电池组用坚固支架紧固在试验机上,支架支撑着每个试验电池组的所有安装面。								
	每个电池须经受最大加速度150 gn 和脉冲持续时间6 毫秒的半正弦波冲击。不过,大型电池须经受最大加速度50 gn 和脉冲持续时间11 毫秒的半正弦波冲击。								
			皮冲击的最大加速度取决于电池组的质量。小型电池组的脉冲 b组的脉冲持续时间11 毫秒。		他组的脉冲				
	每个电池:	或电池组须在三	个互相垂直的电池或电池组安装 次冲击,总共经受18 次冲击。	方位的正极方向:	经受三次冲				
	•	nt / 标准要求:		The test results r					
	leakage, no fire and if th	venting, no disa e open circuit vo	uns requirement il there is no	requirements. Se 测试结果符合要:		Р			



	ST/SG/AC.10/11/Rev.6/ Amend.1 Sec	tion 38.3			
Clause	Requirement	Result	Verdict		
章节	标准要求	测试结果	判定		
	immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states. 如果无渗漏、无排气、无解体、无破裂和无起火,并且每个试验电池或电池组在试验后的开路电压不小于其在进行这一试验前电压的90%,电池和电池组即符合这一要求。有关电压的要求不适用于完全放电状态的试验电池和电池组。				
	Test 5: External short circuit / 测试5: 外部短路		Р		
38.3.4.5	Test procedure / 测试步骤: The cell or battery to be tested shall be shall be heated for a period of time necessary to reach a homogeneous stabilized temperature of 57 ± 4 °C, measured on the external case. This period of time depends on the size and design of the cell or battery and should be assessed and documented. If this assessment is not feasible, the exposure time shall be at least 6 hours for small cells and small batteries, and 12 hours for large cells and large batteries. Then the cell or battery at 57 ± 4 °C shall be subjected to one short circuit condition with a total external resistance of less than 0.1 ohm. This short circuit condition is continued for at least one hour after the cell or battery external case temperature has returned to 57 ± 4 °C, or in the case of the large batteries, has decreased by half of the maximum temperature increase observed during the test and remains below that value. The short circuit and cooling down phases shall be conducted at least at ambient temperature. 对于待试电池或电池组,应加温一段必要的时间,使从外壳测量的温度达到均匀的稳定温度57 ± 4°C。这段时间的长短取决于电池或电池组的大小和设计,对于这个持续时间应加以评估和记录。如无法进行这种评估,则小型电池和小型电池组的暴露时间应至少6小时,大型电池和小型电池组的暴露时间应至少6小时,大型电池和小型电池组的暴露时间应至少6小时,大型电池和小型电池组的暴露时间应至少6小时,成后,电池或电池组应在57 ± 4°C条件下经受总外电阻小于0.1欧姆的短路条件。 这一短路条件应在电池或电池组外壳温度回到57 ± 4°C后继续至少1小时,或在大型电池组的情况下外壳温度降幅达到试验中所观察的的最高温升幅的二分之一并保持低于该数值。				
	短路和降温阶段的温度应至少相当于环境温度。 Requirement / 标准要求: Cells and batteries meet this requirement if their external temperature does not exceed 170 °C and there is no disassembly, no rupture and no fire within six hours after this test. 如果外壳温度不超过170℃,并且在试验过程中及试验后6小时内无解体、无破裂,无起火,电池和电池组即符合本项要求。				
	Test 6: Impact / Crush / 测试6: 撞击 / 挤压		Р		
38.3.4.6	Test procedure / 测试步骤: Impact (applicable to cylindrical cells not less than 18.0 mm in diameter) NOTE: Diameter here refers to the design parameter (for example the diameter of 18650 cells is 18.0 mm). The sample cell or component cell is to be placed on a flat smooth surface. A 15.8 mm ± 0.1mm diameter, at least 6 cm long, or the longest dimension of the cell,				



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Clause	Requirement	Result	Verdict				
章节	标准要求	测试结果	判定				

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 \pm 0.1mm diameter curved surface lying across the center of the test sample. Each sample is to be subjected to only a single impact.

撞击(适用于直径不小于18.0毫米的圆柱形电池)

备注: 这里的直径指的是设计参数(如18650电芯的直径是18.0mm)。

试样电池或元件电池放在平坦光滑的表面上。一根316型不锈钢棒横放在试样中心,钢棒直径15.8毫米±0.1毫米,长度至少6厘米,或电池最长端的尺寸,取二者之长者。将一块9.1千克±0.1千克的重锤从61±2.5厘米高处跌落到钢棒和试样交叉处,使用一个几乎没有摩擦的、对落体重锤阻力最小的垂直轨道或管道加以控制。垂直轨道或管道用于引导落锤沿与水平支撑表面呈90度落下。

接受撞击的试样,纵轴应与平坦表面平行并与横放在试样中心的直径15.8 ± 0.1毫米弯曲表面的纵轴垂直。每一试样只经受一次撞击。

Test procedure / 测试步骤:

Crush (applicable to prismatic, pouch, coin/button cells and cylindrical cells less than 18.0 mm in diameter)

NOTE: Diameter here refers to the design parameter (for example the diameter of 18650 cells is 18.0 mm).

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 13 kN \pm 0.78 kN;
 - Example: The force shall be applied by a hydraulic ram with a 32 mm diameter piston until a pressure of 17 MPa is reached on the hydraulic ram.
- (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 100 mV or more, or the cell is deformed by at least 50% of its original thickness, the pressure shall be released.

A prismatic or pouch cell shall be crushed by applying the force to the widest side. A button/coin cell shall be crushed by applying the force on its flat surfaces. For cylindrical cells, the crush force shall be applied perpendicular to the longitudinal axis.

Each test cell or component cell is to be subjected to one crush only. The test sample shall be observed for a further 6 h. The test shall be conducted using test cells or component cells that have not previously been subjected to other tests.

挤压(适用于棱柱形、袋装、硬币/纽扣电池和直径小于18.0毫米的圆柱形电池)

备注: 这里的直径指的是设计参数(如18650电芯的直径是18.0mm)。

将电池或元件电池放在两个平面之间挤压,挤压力度逐渐加大,在第一个接触点上的速度大约为1.5厘米/秒。挤压持续进行,直到出现以下三种情况之一:

- (a) 施加到电芯上的压力达到13 kN \pm 0.78 kN;
- (b) 电芯电压下降至少100mV;或
- (c) 电芯形变与原电芯相比变化50%或以上。



	ST/SG/AC.10/11/Rev.6/ Amend.1 Se	ction 38.3				
Clause 章节	Requirement 标准要求	Result 测试结果	Verdict 判定			
	一旦达到最大压力、电压下降 100 毫伏或更多,或电池变可解除压力。	泛形至少达原厚度的 50% ,即				
	棱柱形或袋装电芯应从最宽的一面施压,纽扣/硬币形电 形电池应从与纵轴垂直的方向施压。	池应从其平坦表面施压,圆柱				
	每个样品只经受一次挤压。试验后样品应再观察6个小时他试验的电池或元件电池进行。	寸,试验应使用之前未做过其				
	Requirement / 标准要求: Cells and component cells meet this requirement if	The test results meet the requirements. See table 2.				
	their external temperature does not exceed 170 °C and there is no disassembly and no fire during the test and	测试结果符合要求。见表2。	Р			
	within six hours after this test. 如果外壳温度不超过170℃,并且在试验过程中及试验	⊠挤压 Crush	•			
	后6小时内无解体、无破裂,无起火,电池和电池组即符合本项要求。	□撞击 Impact				
	Test 7: Overcharge / 测试7: 过充电		Р			
	Test procedure / 测试步骤: The charge current shall be twice the manufacturer's recommended maximum continuous charge current. The minimum voltage of the test shall be as follows: (a) When the manufacturer's recommended charge voltage is not more than 18V, the minimum voltage of the test shall be the lesser of two times the maximum charge voltage of the battery or 22V.					
	 (b) When the manufacturer's recommended charge voltage is more than 18V, the minimum voltage of the test shall be 1.2 times the maximum charge voltage. Tests are to be conducted at ambient temperature. The duration of the test shall be 					
38.3.4.7	24 hours.					
30.3.4.1	充电电流应是制造商建议的最大连续充电电流的两倍。最小试验电压应满足如下所述: (a) 制造商建议的充电电压不大于18V时,最小试验电压应是电池最大充电电压的2倍或 22V两者中的较小值。					
	(b) 制造商建议的充电电压大于18伏特时,最小试验电压应是最大充电电压的1.2倍。					
	试验应在环境温度下进行。进行试验的时间应为24小月	村 。				
	Requirement / 标准要求: Rechargeable batteries meet this requirement if there is no disassembly and no fire during the test and within seven days after the test. 充电电池组如在试验过程中和试验后7天内无解体,无起火,即符合本项要求。	The test results meet the requirements. See table 3. 测试结果符合要求。见表3。	Р			
	Test 8: Forced discharge / 测试8: 强制放电		Р			
	Test procedure / 测试步骤:					
38.3.4.8	Each cell shall be forced discharged at ambient temperature by connecting it in series with a 12 V D.C. power supply at an initial current equal to the maximum discharge current specified by the manufacturer.					
	The specified discharge current is to be obtained by conthe appropriate size and rating in series with the test cell. discharged for a time interval (in hours) equal to its rated test current (in Ampere).	Each cell shall be forced				



	ST/SG/AC.10/11/Rev.6/ Amend.1 Section 38.3							
Clause	ause Requirement Result							
章节	标准要求	测试结果	判定					
	每个电池应在环境温度下与12伏直流电源串联在起始电流等于制造商给定的最大放电电流的条件下强制放电。 将适当大小和额定值的电阻负荷与试验电池串联,计算得出给定的放电电流。对每个电池进行强制放电,放电时间(小时)应等于其额定容量除以初始试验电流(安培)。							
	Requirement / 标准要求: Primary or rechargeable cells meet this requirement if there is no disassembly and no fire within seven days of the test. 原电池或充电电池如在试验过程中和试验后7天内无解体,无起火,即符合本项要求。	The test results meet the requirements. See table 4. 测试结果符合要求。见表4。	Р					



检测结果/ Test Results

Table:1 T1-T5 / 表1: 试验1-试验5										Р		
Sample NO. 样品 序号	Mass prior to test / 试 验前质量 (g)	prior to test / 试	OCV prior to test / 试 验前电	simu 测试1:	Altitude lation 高度模 以	te	Thermal st 热冲击		Vibration :振动		Shock : 冲击	Test 5: External Short Circuit 测试5: 外部短路
		压 (V)	Mass loss 质量损 失 (%)	Change ratio 电压比 (%)	Mass loss 质量损 失 (%)	Change ratio 电压比 (%)	Mass loss 质量损 失 (%)	Change ratio 电压比 (%)	Mass loss 质量损 失 (%)	Change ratio 电压比 (%)	Max. Temp. 最高温度 (℃)	
B01	35.963	5.16	0.006	99.81	0.000	99.81	0.000	100.00	0.000	100.00	59.6	
B02	35.962	5.16	0.000	100.00	0.006	99.42	0.006	100.00	0.000	100.00	59.9	
B03	35.979	5.16	0.003	100.00	0.000	99.81	0.000	99.81	0.003	99.81	59.6	
B04	36.005	5.17	0.006	99.81	0.000	99.61	0.008	100.00	0.000	100.00	60.1	
B05	35.973	5.17	0.000	100.00	0.006	99.81	0.000	99.81	0.000	99.81	60.1	
B06	35.962	5.17	0.000	100.00	0.006	99.81	0.008	100.00	0.008	99.81	60.1	
B07	35.980	5.17	0.006	99.81	0.000	99.81	0.000	100.00	0.006	100.00	59.8	
B08	36.005	5.17	0.000	100.00	0.006	99.81	0.008	100.00	0.000	100.00	59.9	
B09	36.007	5.16	0.008	100.00	0.000	99.61	0.000	100.00	0.000	99.81	59.9	
B10	35.971	5.16	0.000	100.00	0.003	99.81	0.011	99.81	0.008	100.00	60.1	

Remark: / 备注:

Test 1-Test 4: No leakage, No venting, No disassembly, No rupture and no fire; Mass loss <0.2%.

测试1-测试4: 无漏液、无排气、无解体、无破裂以及无着火现象; 质量损失小于0.2%。

Test 5: no disassembly ,no rupture and no fire; external temperature does not exceed 170 °C.

测试5: 无解体、无破裂和无起火现象; 表面温度不超过170°C。



检测结果/ Test Results

Table2: T6 / 表	2 试验6 ☐ Impact / 撞击	⊠ Crush / 挤压	Р
Sample No, 样品编号	OCV Prior to test (V) 试验前电压	External Peak temperature(℃) 表面最高温度(℃)	Results 结果
C01	3.86	23.8	Р
C02	3.86	24.0	Р
C03	3.85	24.0	Р
C04	3.85	23.8	Р
C05	3.85	23.8	Р
C06	3.85	24.1	Р
C07	3.86	23.6	Р
C08	3.85	24.0	Р
C09	3.85	23.9	Р
C10	3.86	24.1	Р

Remark: / 备注:

No disassembly ,no rupture and no fire; external temperature does not exceed 170 °C.

无解体、无破裂和无起火现象;表面温度不超过170℃。

Table3: T7 Overcharge / 表3: 测试7 过充电				Р
Charge voltage / 充电电压(V)		10.4	Charge current / 充电电流(A) 0.8	
Sample NO. 样品序号	OCV Prior to test 试验前电压(V)	` '	Phenomenon 现象	Results 结果
B11	5.16		No disassembly, no fire / 无解体,无着火	Р
B12	5.17		No disassembly, no fire / 无解体,无着火	Р
B13	5.17		No disassembly, no fire / 无解体,无着火	Р
B14	5.17		No disassembly, no fire / 无解体,无着火	Р
B15	5.17		No disassembly, no fire / 无解体,无着火	Р
B16	5.17		No disassembly, no fire / 无解体,无着火	Р
B17	5.16		No disassembly, no fire / 无解体,无着火	Р
B18	5.16		No disassembly, no fire / 无解体,无着火	Р



检测结果/ Test Results

Table4: T8 Fo	Р	
Sample NO. 样品序号	Phenomenon / 现象	Results 结果
C11	No disassembly, no fire / 无解体,无着火	Р
C12	No disassembly, no fire / 无解体,无着火	Р
C13	No disassembly, no fire / 无解体,无着火	Р
C14	No disassembly, no fire / 无解体,无着火	Р
C15	No disassembly, no fire / 无解体,无着火	Р
C16	No disassembly, no fire / 无解体,无着火	Р
C17	No disassembly, no fire / 无解体,无着火	Р
C18	No disassembly, no fire / 无解体,无着火	Р
C19	No disassembly, no fire / 无解体,无着火	Р
C20	No disassembly, no fire / 无解体,无着火	Р
C21	No disassembly, no fire / 无解体,无着火	Р
C22	No disassembly, no fire / 无解体,无着火	Р
C23	No disassembly, no fire / 无解体,无着火	Р
C24	No disassembly, no fire / 无解体,无着火	Р
C25	No disassembly, no fire / 无解体,无着火	Р
C26	No disassembly, no fire / 无解体,无着火	Р
C27	No disassembly, no fire / 无解体,无着火	Р
C28	No disassembly, no fire / 无解体,无着火	Р
C29	No disassembly, no fire / 无解体,无着火	Р
C30	No disassembly, no fire / 无解体,无着火	Р



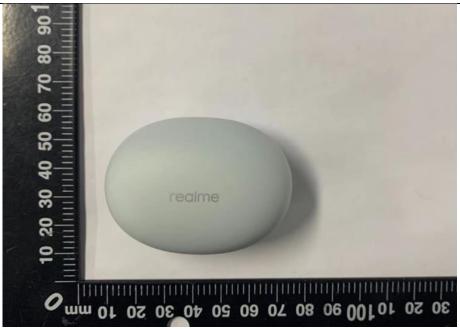


Picture 1 Front view of black battery 图1: 黑色电池正面



Picture 2 Back view of black battery 图2: 黑色电池反面





Picture 3 Front view of gray battery 图3: 灰色电池正面

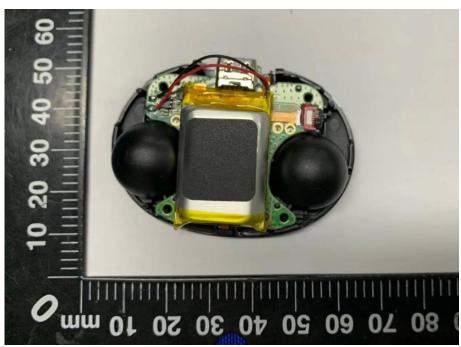


Picture 4 Back view of gray battery 图4: 灰色电池反面



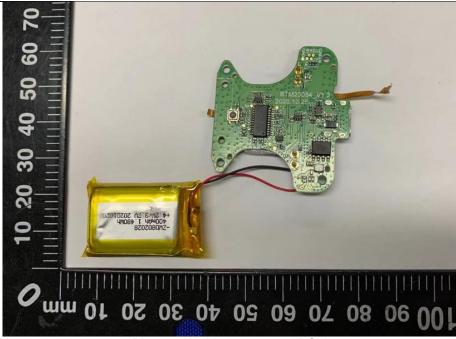


Picture 5 Inside view A of battery 图5: 电池内部

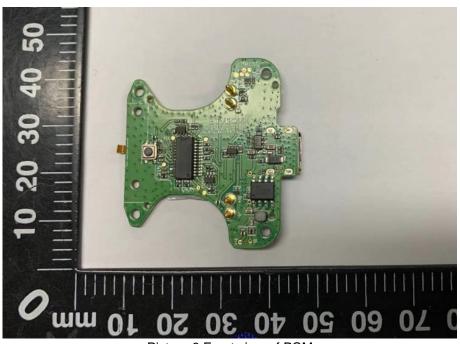


Picture 6 Inside view A of battery 图6: 电池内部



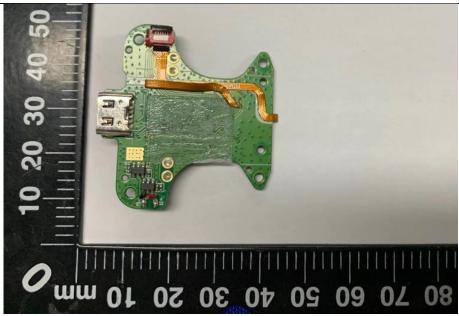


Picture 7 Inside battery and PCM 图7: 内部电池和保护电路



Picture 8 Front view of PCM 图8: 保护电路正面



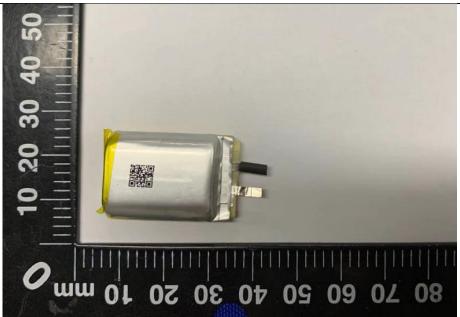


Picture 9 Back view of PCM 图9: 保护电路反面



Picture 10 Front view of cell 图10: 电芯正面





Picture 11 Back view of cell 图11: 电芯反面



Picture 12 Label view of battery 图12: 电池标签

声明

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