



UN38. 3 测试报告

UN38.3 Test Report

申请商
APPLICANT : PEAG, LLC dba JLab Audio

产品名称
PRODUCT NAME : Charging Case

型号/MODEL NAME : Epic Air Sport ANC

商标/TRADE NAME : JLab

接收日期
RECEIPT DATE : 2020/07/15

测试日期
TEST DATE : 2020/07/15-2020/07/30

签发日期
ISSUE DATE : 2020/08/04

编制
Edited by:


李晨

签发
Approved by:


李冬

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测试报告声明

Test Report Declaration

申请商/Applicant	PEAG, LLC dba JLab Audio	
申请商地址 Applicant Address	2281 Las Palmas Drive, Suite 101, Carlsbad, CA92011, USA	
产品名称/ Product Name	充电盒 / Charging Case	
型号/ Model Name	Epic Air Sport ANC	
标称/ Rating	3.7 V / 1000 mAh, 3.7 Wh	
制造商信息 Manufacturer information	制造商 Manufacturer	惠州迪芬尼声学科技股份有限公司 Tymphony Acoustic Technology(Huizhou)Co., Ltd.
	制造商地址 Manufacturer Address	中国广东省惠州市惠阳区新圩镇新联村迪芬尼工业区 Tymphony Industry Area, Xinlian Village, Xinxu Town, Huiyang District, Huizhou City, Guangdong Province, P.R. China
	联系人/Contact Person	Jessica Chen
	电话/Tel.	+86-752-305-9888
	邮箱/ E-mail	Jessica.chen@tymphony.com
	网址/ Website	www.tymphony.com
尺寸/Size	85.0×61.2×33.5 mm	
电池信息 Battery information	内含电芯数量/Cells number	1pcs(1S1P)
	电芯型号/Cell model	HTKJ 102046
	物理特性/Physical description	棱形/ Prismatic, 黑色/ Black
检验方法及判定标准 Test Method and Criterion	联合国《关于危险货物运输的建议书试验和标准手册》第六版修正1第38.3节 UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS, Manual of Tests and Criteria"ST/SG/AC.10/11/Rev.6/Amend.1, section 38.3	
测试项目 Test Items	高度模拟试验; 温度试验; 振动试验; 冲击试验; 外短路试验; 挤压试验; 过充电试验; 强制放电 Altitude simulation, Thermal test, Vibration, Shock, External short circuit, Crush, Overcharge, Force discharge	
测试结论 Conclusion	受检样品通过 UN 38.3 各项检测, 检测结果合格 The sample has passed the test items of UN38.3.	
备注/ Remarks	无/None	



摩尔实验室检验报告

Morlab Test Report

序号 No.	检验项目名称 Name of test items	标准要求或标准款号 Standard Requirement or the Clause Number of Standard	检测结果 Test Result	本项结论 Test Conclusion	备注 Remarks
1	高度模拟试验 Altitude simulation	联合国《关于危险货物运输的建议书 试验和标准手册》(以下简称:试验和标准手册)UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6/Amend.1, 38.3 试验 T.1 Test T.1	见附表 1 See Appendix 1	合格 Passed	/
2	温度试验 Thermal Test	试验和标准手册 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6/Amend.1, 38.3 试验 T.2 Test T.2	见附表 2 See Appendix 2	合格 Passed	/
3	振动试验 Vibration	试验和标准手册 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6/Amend.1, 38.3 试验 T.3 Test T.3	见附表 3 See Appendix 3	合格 Passed	/
4	冲击试验 Shock	试验和标准手册 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6, 38.3 试验 T.4 Test T.4	见附表 4 See Appendix 4	合格 Passed	/
5	外短路试验 External short circuit	试验和标准手册 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6/Amend.1, 38.3 试验 T.5 Test T.5	见附表 5 See Appendix 5	合格 Passed	/
6	挤压试验 Crush	试验和标准手册 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6/Amend.1, 38.3 试验 T.6 Test T.6	见附表 6 See Appendix 6	合格 Passed	/
7	过充电试验 Overcharge	试验和标准手册 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6/Amend.1, 38.3 试验 T.7 Test T.7	见附表 7 See Appendix 7	合格 Passed	/
8	强制放电 Force discharge	试验和标准手册 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6/Amend.1, 38.3 试验 T.8 Test T.8	见附表 8 See Appendix 8	合格 Passed	/
检验环境条件 Test Environment Condition		环境温度: 15~25℃ Ambient Temperature: 15~25℃			
备注/ Remarks		测试样品为充电盒, 内含有一块锂离子电池(型号: HTKJ 102046), 该电池(型号: HTKJ 102046)已测试, 符合联合国《联合国《关于危险货物运输的建议书试验和标准手册》第六版修正 1 第 38.3 节, 测试报告编号: 20PNS050135 02001 The test sample is charging case containing a Li-ion battery (model: HTKJ 102046). The battery (model: HTKJ 102046) has been tested and conforms to UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS, Manual of Tests and Criteria"ST/SG/AC.10/11/Rev.6/Amend.1, section 38.3. Test report No. : 20PNS050135 02001			



REPORT No. : SZ20070196D01

变更历史/Change History		
版本/Version	日期/Date	变更原因/Reason for Change
1.0	2020-08-04	初版/First edition



检验报告-附件 1

Test Report-Appendix 1

序号 No.	1	检测项目名称 Name of test items		高度模拟试验 Altitude simulation				
样品 编号 Sample No	样品状态 Sample Status	试验前 Before		试验后 After		质量损 失 Mass Loss/%	剩余 电压 Residual OCV/%	其他 现象 Other Event
		质量 Weight/g	开路 电压 OCV/V	质量 Weight/g	开路 电压 OCV/V			
1	首次充满 Fully charged at first cycle	68.6667	5.022	68.6664	5.022	0.0004	100.00	O
2	首次充满 Fully charged at first cycle	68.3804	5.031	68.3801	5.031	0.0004	100.00	O
3	首次充满 Fully charged at first cycle	68.0937	5.011	68.0935	5.011	0.0003	100.00	O
4	首次充满 Fully charged at first cycle	68.5226	5.013	68.5222	5.013	0.0006	100.00	O
5	首次充满 Fully charged at first cycle	68.0946	5.035	68.0941	5.035	0.0007	100.00	O
6	25 次循环后充满 Fully charged after 25 cycles	68.7334	5.033	68.7332	5.033	0.0003	100.00	O
7	25 次循环后充满 Fully charged after 25 cycles	68.5811	5.034	68.5808	5.034	0.0004	100.00	O
8	25 次循环后充满 Fully charged after 25 cycles	68.2281	5.019	68.2278	5.019	0.0004	100.00	O
9	25 次循环后充满 Fully charged after 25 cycles	68.6066	5.022	68.6064	5.022	0.0003	100.00	O
10	25 次循环后充满 Fully charged after 25 cycles	68.1114	5.033	68.1111	5.033	0.0004	100.00	O

备注: L-漏液, V-漏气, D-解体, R-破裂, F-起火, O-无漏液, 无解体, 无破裂, 无起火;

Remark: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire, O-No Leakage, No Venting, No Disassembly, No Rupture, No Fire



检验报告-附件 2

Test Report-Appendix 2

序号 No.	2	检测项目名称 Name of test items		热测试 Thermal Test				
样品 编号 Sample No	样品状态 Sample Status	试验前 Before		试验后 After		质量损失 Mass Loss/%	剩余 电压 Residual OCV/%	其他 现象 Other Event
		质量 Weight/g	开路 电压 OCV/V	质量 Weight/g	开路 电压 OCV/V			
1	首次充满 Fully charged at first cycle	68.6664	5.022	68.6618	5.017	0.0067	99.90	O
2	首次充满 Fully charged at first cycle	68.3801	5.031	68.3764	5.027	0.0054	99.92	O
3	首次充满 Fully charged at first cycle	68.0935	5.011	68.0887	5.007	0.0070	99.92	O
4	首次充满 Fully charged at first cycle	68.5222	5.013	68.5179	5.008	0.0063	99.90	O
5	首次充满 Fully charged at first cycle	68.0941	5.035	68.0891	5.031	0.0073	99.92	O
6	25 次循环后充满 Fully charged after 25 cycles	68.7332	5.033	68.7284	5.031	0.0070	99.96	O
7	25 次循环后充满 Fully charged after 25 cycles	68.5808	5.034	68.5751	5.029	0.0083	99.90	O
8	25 次循环后充满 Fully charged after 25 cycles	68.2278	5.019	68.2239	5.015	0.0057	99.92	O
9	25 次循环后充满 Fully charged after 25 cycles	68.6064	5.022	68.6017	5.019	0.0069	99.94	O
10	25 次循环后充满 Fully charged after 25 cycles	68.1111	5.033	68.1038	5.029	0.0107	99.92	O
备注: L-漏液, V-漏气, D-解体, R-破裂, F-起火, O-无漏液, 无解体, 无破裂, 无起火; Remark: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire, O-No Leakage, No Venting, No Disassembly, No Rupture, No Fire								



检验报告-附件 3

Test Report-Appendix 3

序号 No.	3	检测项目名称 Name of test items		振动试验 Vibration				
样品 编号 Sample No	样品状态 Sample Status	试验前 Before		试验后 After		质量损 失 Mass Loss/%	剩余 电压 Residual OCV/%	其他 现象 Other Event
		质量 Weight/g	开路 电压 OCV/V	质量 Weight/g	开路 电压 OCV/V			
1	首次充满 Fully charged at first cycle	68.6618	5.017	68.6615	5.017	0.0004	100.00	O
2	首次充满 Fully charged at first cycle	68.3764	5.027	68.3761	5.027	0.0004	100.00	O
3	首次充满 Fully charged at first cycle	68.0887	5.007	68.0885	5.007	0.0003	100.00	O
4	首次充满 Fully charged at first cycle	68.5179	5.008	68.5176	5.008	0.0004	100.00	O
5	首次充满 Fully charged at first cycle	68.0891	5.031	68.0888	5.031	0.0004	100.00	O
6	25 次循环后充满 Fully charged after 25 cycles	68.7284	5.031	68.7281	5.031	0.0004	100.00	O
7	25 次循环后充满 Fully charged after 25 cycles	68.5751	5.029	68.5747	5.029	0.0006	100.00	O
8	25 次循环后充满 Fully charged after 25 cycles	68.2239	5.015	68.2236	5.015	0.0004	100.00	O
9	25 次循环后充满 Fully charged after 25 cycles	68.6017	5.019	68.6014	5.019	0.0004	100.00	O
10	25 次循环后充满 Fully charged after 25 cycles	68.1038	5.029	68.1035	5.029	0.0004	100.00	O

备注: L-漏液, V-漏气, D-解体, R-破裂, F-起火, O-无漏液, 无解体, 无破裂, 无起火;

Remark: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire, O-No Leakage, No Venting, No Disassembly, No Rupture, No Fire



检验报告-附件 4

Test Report-Appendix 4

序号 No.	4	检测项目名称 Name of test items		冲击试验 Shock				
样品 编号 Sample No	样品状态 Sample Status	试验前 Before		试验后 After		质量损失 Mass Loss/%	剩余 电压 Residual OCV/%	其他 现象 Other Event
		质量 Weight/g	开路 电压 OCV/V	质量 Weight/g	开路 电压 OCV/V			
1	首次充满 Fully charged at first cycle	68.6615	5.017	68.6611	5.017	0.0006	100.00	O
2	首次充满 Fully charged at first cycle	68.3761	5.027	68.3758	5.027	0.0004	100.00	O
3	首次充满 Fully charged at first cycle	68.0885	5.007	68.0880	5.007	0.0007	100.00	O
4	首次充满 Fully charged at first cycle	68.5176	5.008	68.5174	5.008	0.0003	100.00	O
5	首次充满 Fully charged at first cycle	68.0888	5.031	68.0885	5.031	0.0004	100.00	O
6	25 次循环后充满 Fully charged after 25 cycles	68.7281	5.031	68.7277	5.031	0.0006	100.00	O
7	25 次循环后充满 Fully charged after 25 cycles	68.5747	5.029	68.5744	5.029	0.0004	100.00	O
8	25 次循环后充满 Fully charged after 25 cycles	68.2236	5.015	68.2233	5.015	0.0004	100.00	O
9	25 次循环后充满 Fully charged after 25 cycles	68.6014	5.019	68.6011	5.019	0.0004	100.00	O
10	25 次循环后充满 Fully charged after 25 cycles	68.1035	5.029	68.1032	5.029	0.0004	100.00	O

备注: L-漏液, V-漏气, D-解体, R-破裂, F-起火, O-无漏液, 无解体, 无破裂, 无起火;

Remark: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire, O-No Leakage, No Venting, No Disassembly, No Rupture, No Fire



检验报告-附件 5
Test Report-Appendix 5

序号 No.	5	检测项目名称 Name of test items	外短路试验 External short circuit
样品编号 Sample No.	样品状态 Sample status	样品表面最高温度 Max. External Test Items / °C	其他现象 Other Event
1	首次充满 Fully charged at first cycle	57.6	O
2	首次充满 Fully charged at first cycle	57.0	O
3	首次充满 Fully charged at first cycle	57.3	O
4	首次充满 Fully charged at first cycle	57.0	O
5	首次充满 Fully charged at first cycle	57.3	O
6	25 次循环后充满 Fully charged after 25 cycles	57.6	O
7	25 次循环后充满 Fully charged after 25 cycles	57.0	O
8	25 次循环后充满 Fully charged after 25 cycles	57.3	O
9	25 次循环后充满 Fully charged after 25 cycles	57.6	O
10	25 次循环后充满 Fully charged after 25 cycles	57.3	O
备注: D-解体, R-破裂, F-起火, O-无解体, 无破裂, 无起火; Remark: D-Disassembly, R-Rupture, F-Fire, O-No Disassembly, No Rupture, No Fire			



检验报告-附件 6

Test Report-Appendix 6

序号 No.	6	检测项目名称 Name of test items	挤压试验 Crush
样品编号 Sample No.	样品状态 Sample status	样品表面最高温度 Max. External Test Items/ °C	其他现象 Other Event
11	首次 50%容量 50% of capacity at first cycle	31.3	O
12	首次 50%容量 50% of capacity at first cycle	32.6	O
13	首次 50%容量 50% of capacity at first cycle	30.5	O
14	首次 50%容量 50% of capacity at first cycle	33.6	O
15	首次 50%容量 50% of capacity at first cycle	31.2	O
16	25 次循环后 50%容量 50% of capacity after25 cycles	33.2	O
17	25 次循环后 50%容量 50% of capacity after25 cycles	31.4	O
18	25 次循环后 50%容量 50% of capacity after25 cycles	35.5	O
19	25 次循环后 50%容量 50% of capacity after25 cycles	39.6	O
20	25 次循环后 50%容量 50% of capacity after25 cycles	37.2	O

备注: D-解体, F-起火, O-无解体, 无起火;

Remark: D-Disassembly, F-Fire, O-No Disassembly, No Fire



检验报告-附件 7
Test Report-Appendix 7

序号 No.	7	检测项目名称 Name of test items	过充电试验 Overcharge
样品编号 Sample No.	样品状态 Sample status	其他现象 Other Event	
21	首次充满 Fully charged at first cycle	O	
22	首次充满 Fully charged at first cycle	O	
23	首次充满 Fully charged at first cycle	O	
24	首次充满 Fully charged at first cycle	O	
25	25 次循环后充满 Fully charged after 25 cycles	O	
26	25 次循环后充满 Fully charged after 25 cycles	O	
27	25 次循环后充满 Fully charged after 25 cycles	O	
28	25 次循环后充满 Fully charged after 25 cycles	O	
备注: D-解体, F-起火, O-无解体, 无起火; Remark: D-Disassembly, F-Fire, O-No Disassembly, No Fire			



检验报告-附件 8
Test Report-Appendix 8

序号 No.	8	检测项目名称 Name of test items	强制放电 Force discharge
样品编号 Sample No.	样品状态 Sample status	其他现象 Other Event	
29	首次完全放电 Fully discharged at first cycle	O	
30	首次完全放电 Fully discharged at first cycle	O	
31	首次完全放电 Fully discharged at first cycle	O	
32	首次完全放电 Fully discharged at first cycle	O	
33	首次完全放电 Fully discharged at first cycle	O	
34	首次完全放电 Fully discharged at first cycle	O	
35	首次完全放电 Fully discharged at first cycle	O	
36	首次完全放电 Fully discharged at first cycle	O	
37	首次完全放电 Fully discharged at first cycle	O	
38	首次完全放电 Fully discharged at first cycle	O	
39	25 次循环后完全放电 Fully discharged after 25 cycles	O	
40	25 次循环后完全放电 Fully discharged after 25 cycles	O	



41	25 次循环后完全放电 Fully discharged after 25 cycles	O
42	25 次循环后完全放电 Fully discharged after 25 cycles	O
43	25 次循环后完全放电 Fully discharged after 25 cycles	O
44	25 次循环后完全放电 Fully discharged after 25 cycles	O
45	25 次循环后完全放电 Fully discharged after 25 cycles	O
46	25 次循环后完全放电 Fully discharged after 25 cycles	O
47	25 次循环后完全放电 Fully discharged after 25 cycles	O
48	25 次循环后完全放电 Fully discharged after 25 cycles	O
备注: D-解体, F-起火, O-无解体, 无起火; Remark: D-Disassembly, F-Fire, O-No Disassembly, No Fire		

样品图片 Photographs of the EUT

1



2



3



4



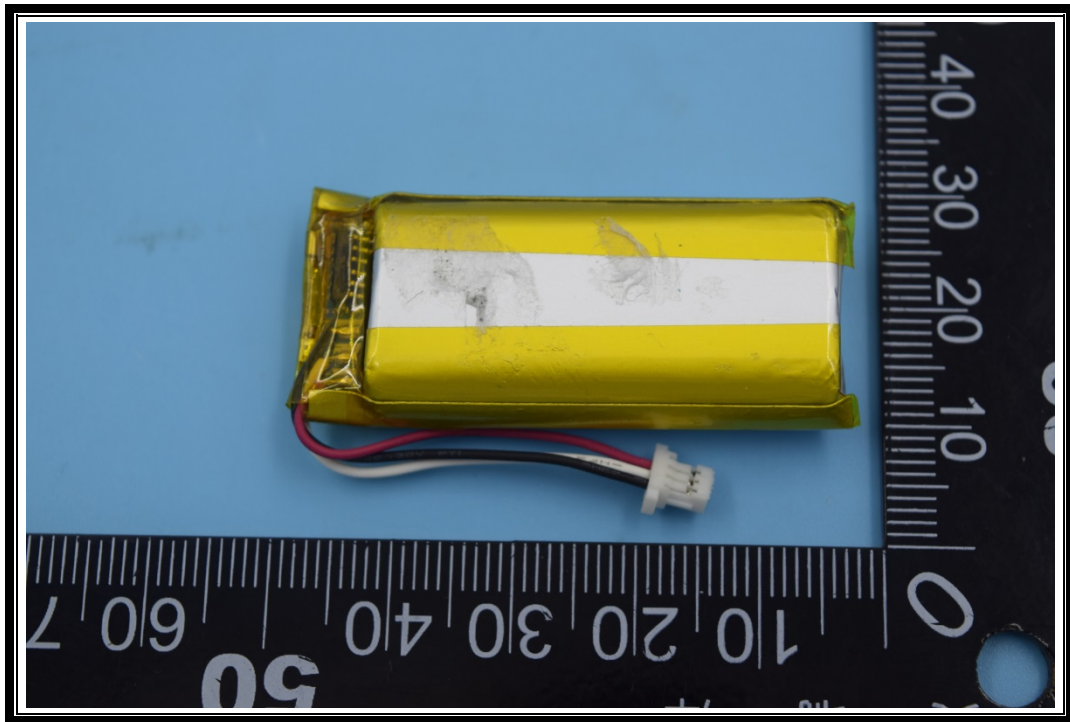
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6



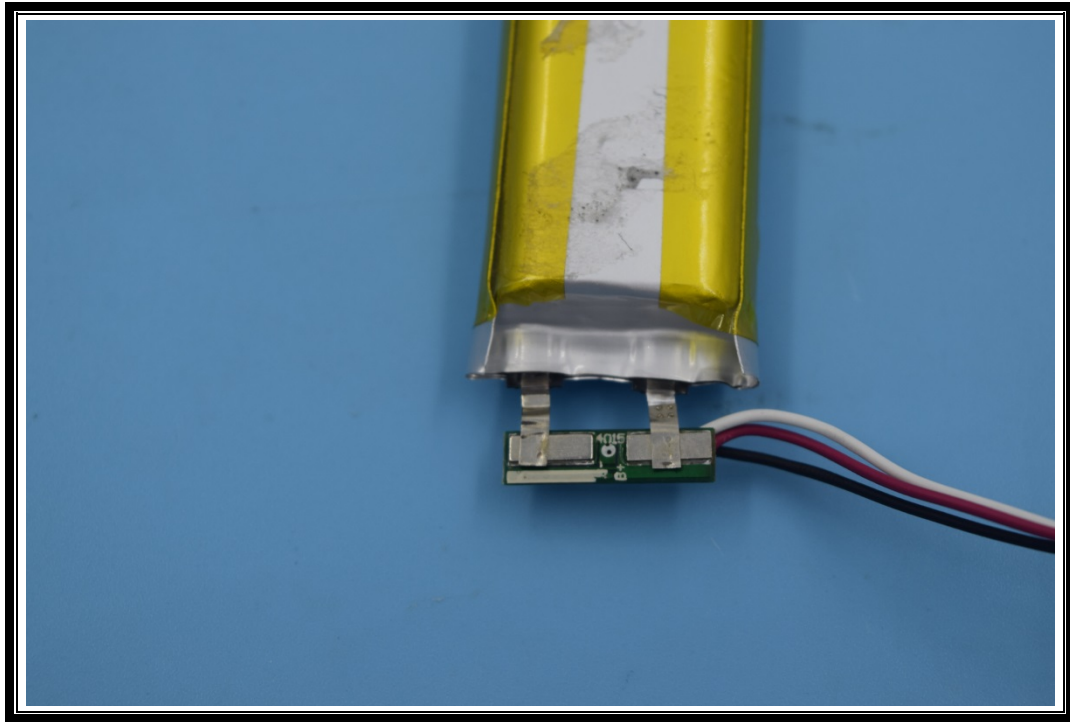
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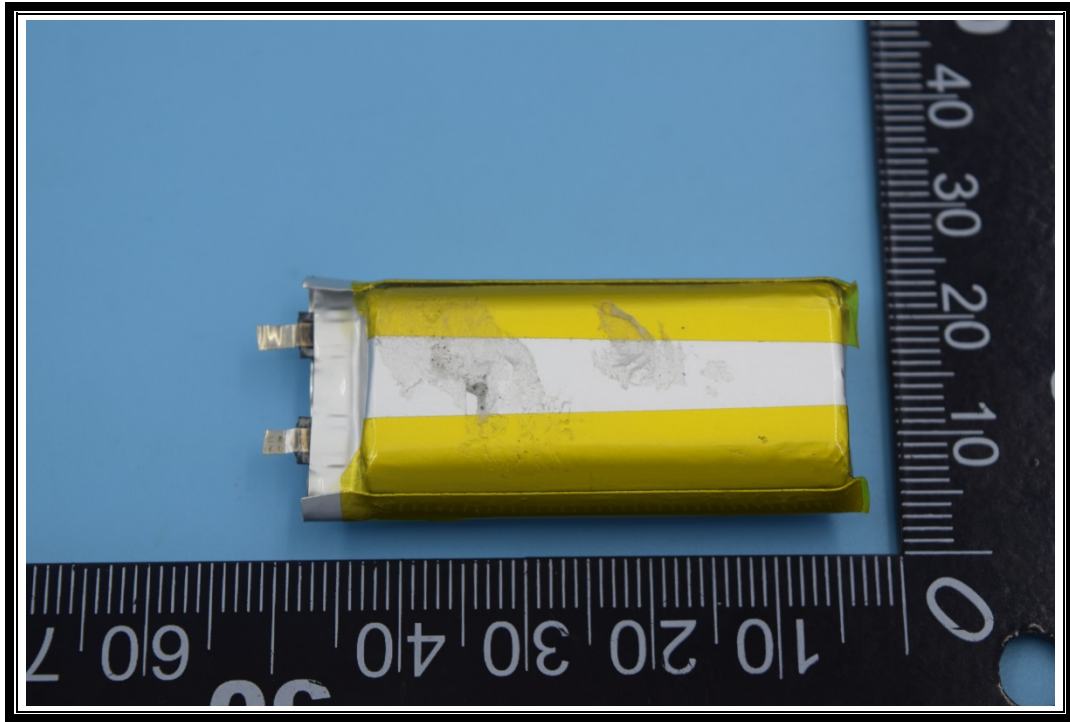
9



10



11





REPORT No. : SZ20070196D01

Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Laboratory Address:	FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525
E-mail:	service@morlab.cn
Website:	Http://www.morlab.cn

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Address:	FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

***** END OF REPORT *****