



Enjoy Life

# Test Report

No. A151222009001

Date: Dec 31, 2015

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SHENZHEN REYHEM INDUSTRIAL CO.,LTD  
4F,A BUILDING, SHILONG BLVD NO. 60,THE SECOND INDUSTRIAL ZONE, SHUITIAN COMMUNITY,SHIYAN  
SUB-DISTRICT OF BAO'AN DISTRICT IN SHENZHEN CITY, GUANGDONG PROVINCE, CHINA

Sample Description:	LI-ION BATTERY BT-001		
Trademark:	/	Style No(s):	/
Rating:	/	PO No.:	/
M/N for main:	/	Batch No.:	/
Age Grade:	/	Product End Use:	/
Vendor:	/	Retest No.:	/
Manufacturer:	/	Supplier Reference:	/
Buyer:	/	Country of Origin:	/
Test Period:	From Dec 22, 2015 to Dec 31, 2015	Country of Destination:	/

### SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)	PASS	-

Signed for and on behalf of  
ANNRAY Test Co., Ltd.

Tony Tang Assistant Manager, Laboratory



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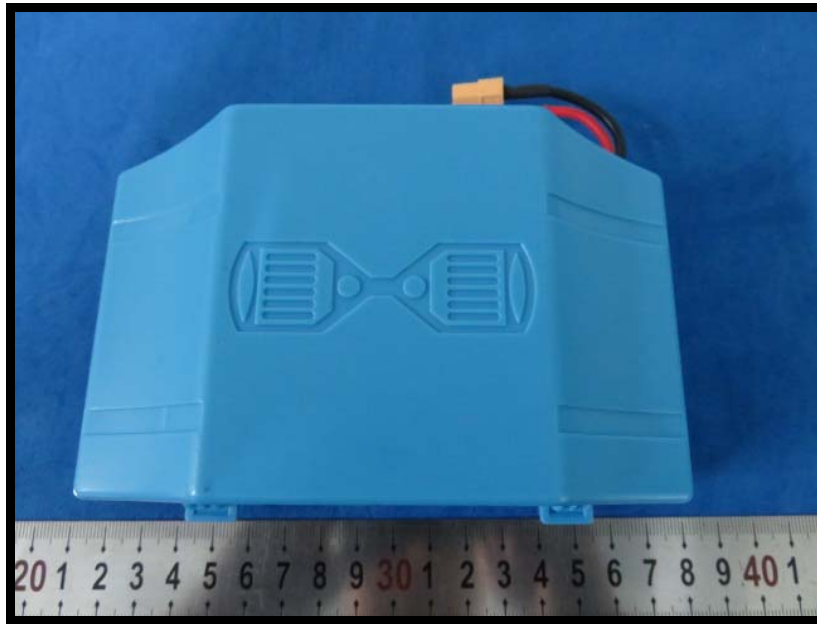
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### Photo of the Submitted Sample



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## Test Item Description and Photo List

Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
001		Transparent yellow adhesive tape	Tape	-
002		Deep green paper with adhesive	Paper	
003		Black foam with adhesive	Foam	-
004		Yellow plastic frame	Connector	-
005		Gold metal		
006		White printed black soft plastic	Sleeve	-
007		Black printed red soft plastic		
008		Black soft plastic jacket	Wire	
009		Red soft plastic jacket		
010		Silvery metal core		
011		Silvery metal plate	Connector	-
012		Silvery solder	Solder	



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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
013		Silvery metal	Screw	-
014		Coppery metal	Nut	-
015		Silvery metal plate	Heat sink	
016		Grey soft plastic	Silica gel	
017		White plastic frame	Connector	-
018		Silvery metal		
019		Black soft plastic jacket	Wire	-
020		Yellow soft plastic jacket		
021		White soft plastic jacket		
022		Red soft plastic jacket		
023		Blue soft plastic jacket		
024		Silvery metal core		
025		White printed black body with silvery edge		
026	Brown body with silvery metal edge	Capacitor, PCB		
027	Black body with pin	Audion, PCB		
028	Black body with pin	Diode, PCB		
029		Black ceramic body	Diode, PCB	-
030		Coppery metal plate with silvery solder		
031		Silvery metal pin		

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
032		White printed black body with silvery metal edge	Resistor, PCB	-
033		Silvery solder	Solder, PCB	-
034		Green PCB	PCB	
035		Blue plastic cover	Battery	-
036		White plastic ring		
037		Silvery metal cover		
038		Silvery metal anode		
039		Transparent yellow plastic	Stopper of anode, Batter	-
040		Shiny silvery metal	Anode, Battery	
041		Silvery metal		
042		Transparent plastic ring		
043		White fabric		
044		Purple plastic	Sticker, Battery	-
045		White plastic	Film ,Battery	
046		Coppery metal with carbon	Body, battery	
047		Silvery metal with carbon		
048		Yellow plastic	Sticker, Battery	

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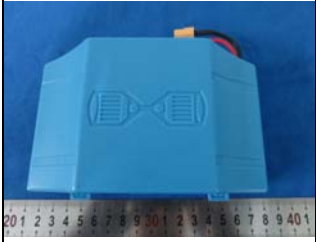
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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
049		Blue plastic	Cover, Battery	-

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## TEST RESULT

### European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)

**Test Method** : See Appendix.

**See Analytes and their corresponding Maximum Allowable Limit in Appendix**

Parameter	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs	PBDEs	Conclusion
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item(s)	-	-	-	-	-	-	-
001	ND	ND	ND	ND	ND	ND	PASS
002	ND	ND	ND	ND	ND	ND	PASS
003	ND	ND	ND	ND	ND	ND	PASS
004	ND	ND	ND	ND	ND	ND	PASS
005	27566#	ND	ND	ND	NA	NA	EXEMPTED
006	ND	ND	ND	ND	ND	ND	PASS
007	ND	ND	ND	ND	ND	ND	PASS
008	ND	ND	ND	ND	ND	ND	PASS
009	ND	ND	ND	ND	ND	ND	PASS
010	ND	ND	ND	ND	ND	ND	PASS
011	ND	ND	ND	ND	ND	ND	PASS
012☆	ND	ND	ND	ND	NA	NA	PASS
013	ND	ND	ND	ND	NA	NA	PASS
014	34891#	ND	ND	ND	NA	NA	EXEMPTED
015	ND	ND	ND	ND	NA	NA	PASS
016	ND	ND	ND	ND	ND	ND	PASS
017	ND	ND	ND	ND	ND	ND	PASS
018	ND	ND	ND	ND	NA	NA	PASS
019	ND	ND	ND	ND	ND	ND	PASS
020	ND	ND	ND	ND	ND	ND	PASS
021	ND	ND	ND	ND	ND	ND	PASS
022	ND	ND	ND	ND	ND	ND	PASS

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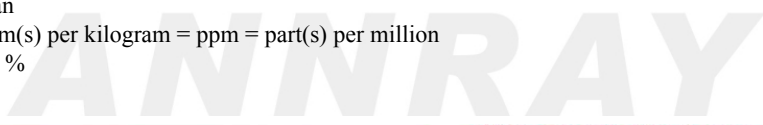
Parameter	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs	PBDEs	Conclusion
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item(s)	-	-	-	-	-	-	-
023	ND	ND	ND	ND	ND	ND	PASS
024	ND	ND	ND	ND	NA	NA	PASS
025	57024###	ND	ND	ND	ND	ND	EXEMPTED
026	15996###	ND	ND	ND	ND	ND	EXEMPTED
027	18831###	ND	ND	ND	ND	ND	EXEMPTED
028	120	ND	ND	ND	ND*	ND*	PASS
029	ND	ND	ND	ND	ND*	ND*	PASS
030	23332&	ND	ND	ND	NA	NA	EXEMPTED
031	33*	ND	ND	ND	NA	NA	PASS
032	11956###	ND	ND	ND	ND*	ND*	EXEMPTED
033☆	ND	ND	ND	ND	NA	NA	PASS
034	ND	ND	ND	ND	ND*	ND*	PASS
035	ND	ND	ND	ND*	ND	ND	PASS
036	ND	ND	ND	ND	ND	ND	PASS
037	ND	ND	ND	ND	NA	NA	PASS
038	ND	ND	ND	ND	NA	NA	PASS
039	ND	ND	ND	ND	ND	ND	PASS
040	ND	ND	ND	ND	NA	NA	PASS
041	ND	ND	ND	ND	NA	NA	PASS
042	ND	ND	ND	ND	ND	ND	PASS
043	ND	ND	ND	ND	ND	ND	PASS
044	ND	ND	ND	ND	ND	ND	PASS
045	ND	ND	ND	ND	ND	ND	PASS
046	ND	ND	ND	ND	ND	ND	PASS
047	ND	ND	ND	ND	ND	ND	PASS
048	ND*	ND	ND	ND*	ND	ND	PASS
049	ND	ND	ND	ND	ND	ND	PASS

Note / Key:

ND = Not detected  
NA=Not Applicable  
% = percent

Detection Limit : See Appendix.

“>” = Greater than  
mg/kg = milligram(s) per kilogram = ppm = part(s) per million  
10000 mg/kg = 1 %



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### RESULTS:

#### Remark:

- The testing approach is listed in table of Appendix.
- Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Council Directive 2011/65/EU, Article 4(1).
- \*denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, non-uniformity composition, surface flatness.
- Only selected example(s) is (are) indicated on the photograph(s) in Comment.
- According to European Council Directive 2011/65/EU, Article 5 “Adaptation of the Annexes to scientific and technical progress”, exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive.
- #According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 6(c) is reiterated here “Copper alloy containing up to 4 % lead by weight.”. Test Item(s) <005, 014> was (were) claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.
- ##According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 7(c)-I is reiterated here “Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.”. Test Item(s) <025,026,027,032 > was (were) claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.
- &According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 7(a) is reiterated here “Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).”. Test Item(s) <030> was (were) claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.
- ☆The test items(012, 033) were semi-product and provided by client dated on Dec 30,2015.

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### RESULTS:

### APPENDIX

List of Analytes and their Corresponding Test Methods, Detection Limit and Maximum Allowable Limit [for European Council Directive 2011/65/EU ] :						
No.	Name of Analytes	Detection Limit (mg/kg)				Maximum Allowable Limit (mg/kg)
		X-ray fluorescence (XRF) <sup>[a]</sup>			Wet Chemistry	
		Plastic	Metallic / glass / ceramic	Others		
1	Lead (Pb)	100	200	200	10 <sup>[b]</sup>	1000
2	Cadmium (Cd)	50	50	50	10 <sup>[b]</sup>	100
3	Mercury (Hg)	100	200	200	10 <sup>[c]</sup>	1000
4	Chromium (Cr)	100	200	200	NA	NA
5	Chromium VI (Cr VI)	NA	NA	NA	3 <sup>[g]</sup> / 10 <sup>[d]</sup> See <sup>[e, i]</sup>	1000 / Negative <sup>[i]</sup>
6	Bromine (Br)	200	NA	200	NA	NA
7	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	NA	NA	NA	Each 50 <sup>[f]</sup>	Sum 1000
8	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	NA	NA	NA	Each 50 <sup>[f]</sup>	Sum 1000

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## RESULTS:

XRF screening limits for different materials:					
Materials	Concentration (mg/kg)				
	Cd	Cr	Pb	Hg	Br
Metal	$P \leq 70 < X < 130 \leq F$	$P \leq 700 < X$	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	N.A.
Polymers	$P \leq 70 < X < 130 \leq F$	$P \leq 700 < X$	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 300 < X$
Composite material	$P \leq 50 < X < 150 \leq F$	$P \leq 500 < X$	$P \leq 500 < X < 1500 \leq F$	$P \leq 500 < X < 1500 \leq F$	$P \leq 250 < X$

P=Pass; F=Fail; X=Inconclusive result

## List of Analytes and their Corresponding Test Methods, Detection Limit and Maximum Allowable Limit [for European Council Directive 2011/65/EU ] :

NA = Not applicable

- [a] Test method with reference to IEC 62321-3-1:2013.
- [b] Test method with reference to IEC 62321-5:2013.
- [c] Test method with reference to IEC 62321-4:2013.
- [d] Polymers and Electronic-Test method with reference to European standard IEC 62321:2008 Annex C.
- [e] Metal-Test method with reference to European standard IEC 62321:2008 Annex B<sup>[h]</sup>.
- [f] Test method with reference to European standard IEC 62321:2008 Annex A.
- [g] Leather-Test method International standard ISO 17075:2007
- [h] The principle of this method was evaluated and supported by two studies organized by IEC TC 111 WG3. These studies were focused on detecting the presence of Cr VI in the corrosion protection coatings on metallic samples. Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Council Directive 2011/65/EU, Article 4(1).

## Testing Approach [ Compliance Test for European Council Directive 2011/65/EU ] :

The testing approach was with reference to the following document(s).

1	International standards IEC 62321-1:2013 and IEC 62321-2:2013
2	“RoHS Enforcement Guidance Document Version 1” by EU RoHS Enforcement Authorities Informal Network. (May 2006)
3	“RoHS Regulations - Government Guidance Notes” by United Kingdom Department for Business Innovation & Skills. (February 2011)
4	“Final Report to RoHS substances (Hg, Pb, Cr(VI), Cd, PBB and PBDE) in electrical and electronic equipment in Belgium” by Belgium Federal Public Service Health, Food Chain Safety and Environment. (November 2005)

\*\*\* End of Report \*\*\*

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