



TEST REPORT

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DATE : Apr 12, 2017
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APPLICANT : **FLASHBAY ELECTRONICS**
BLGD B&C XI FENG CHENG IND ZONE, NO. 2 FUYUAN
ROAD HE PING, VILLAGE, FUYONG TOWN, SHENZHEN

CONTACT PERSON : LEVIN

DATE OF SUBMISSION : Mar 31, 2017

TEST PERIOD : Mar 31, 2017 to Apr 12, 2017

NO. OF WORKING DAYS : 8

SAMPLE DESCRIPTION : Power Bank

Color: /

Style no. / Model no.: Encore(EC), Journey(JY)

P.O. No.: /

Country of Origin: /

Country of Destination: /

MANUFACTURER : **FLASHBAY ELECTRONICS**
BLGD B&C XI FENG CHENG IND ZONE, NO. 2 FUYUAN
ROAD HE PING, VILLAGE, FUYONG TOWN, SHENZHEN

SUMMARY OF TEST RESULTS

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

RW

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BUREAU VERITAS CONSUMER PRODUCTS SERVICES (GUANGZHOU) CO., LTD

NINA REN
SENIOR MANAGER



REMARK

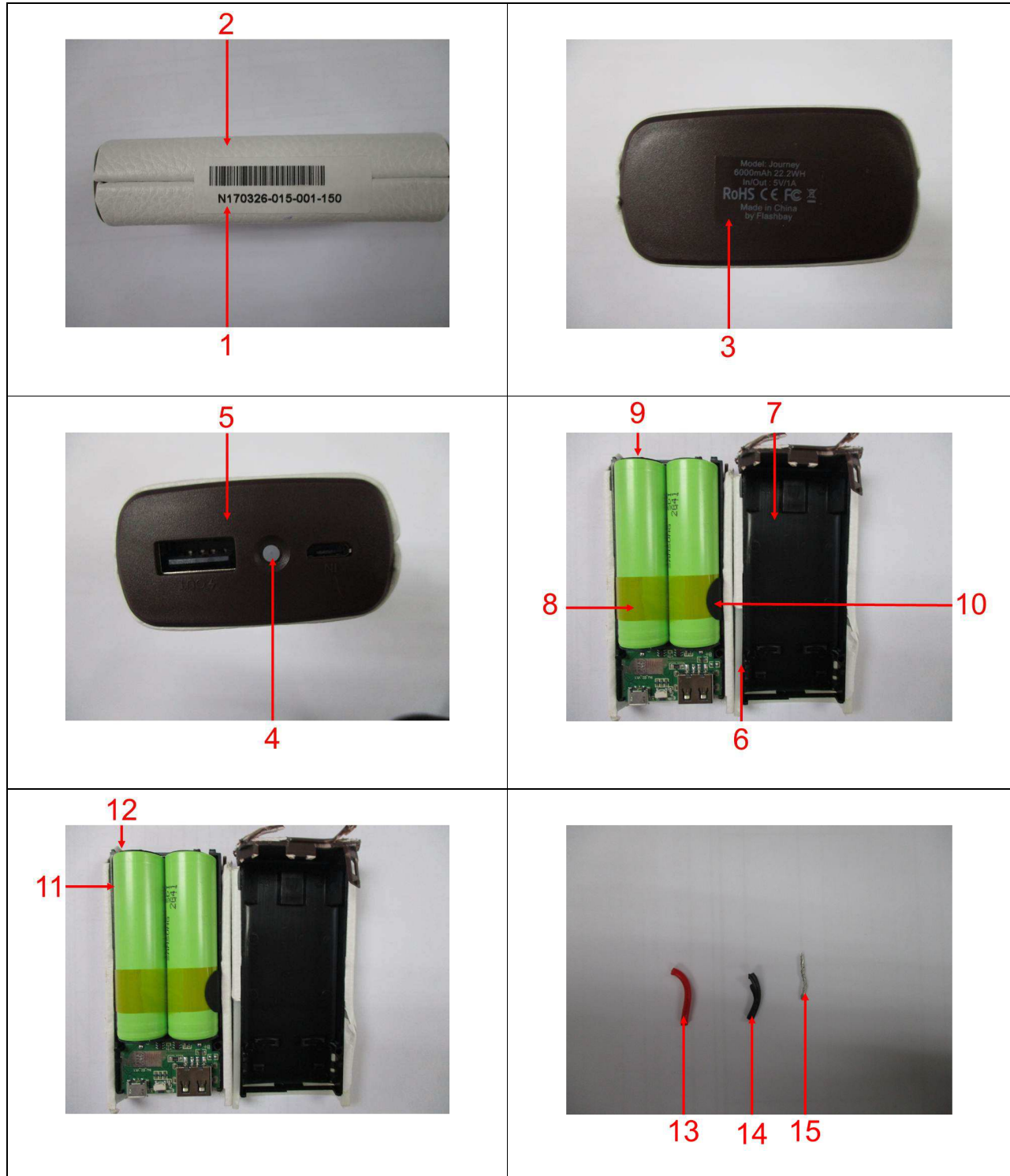
If there are questions or concerns on this report, please contact the following persons:

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- EMAIL: eechemical.sc@cn.bureauveritas.com
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Photo of the Submitted Sample



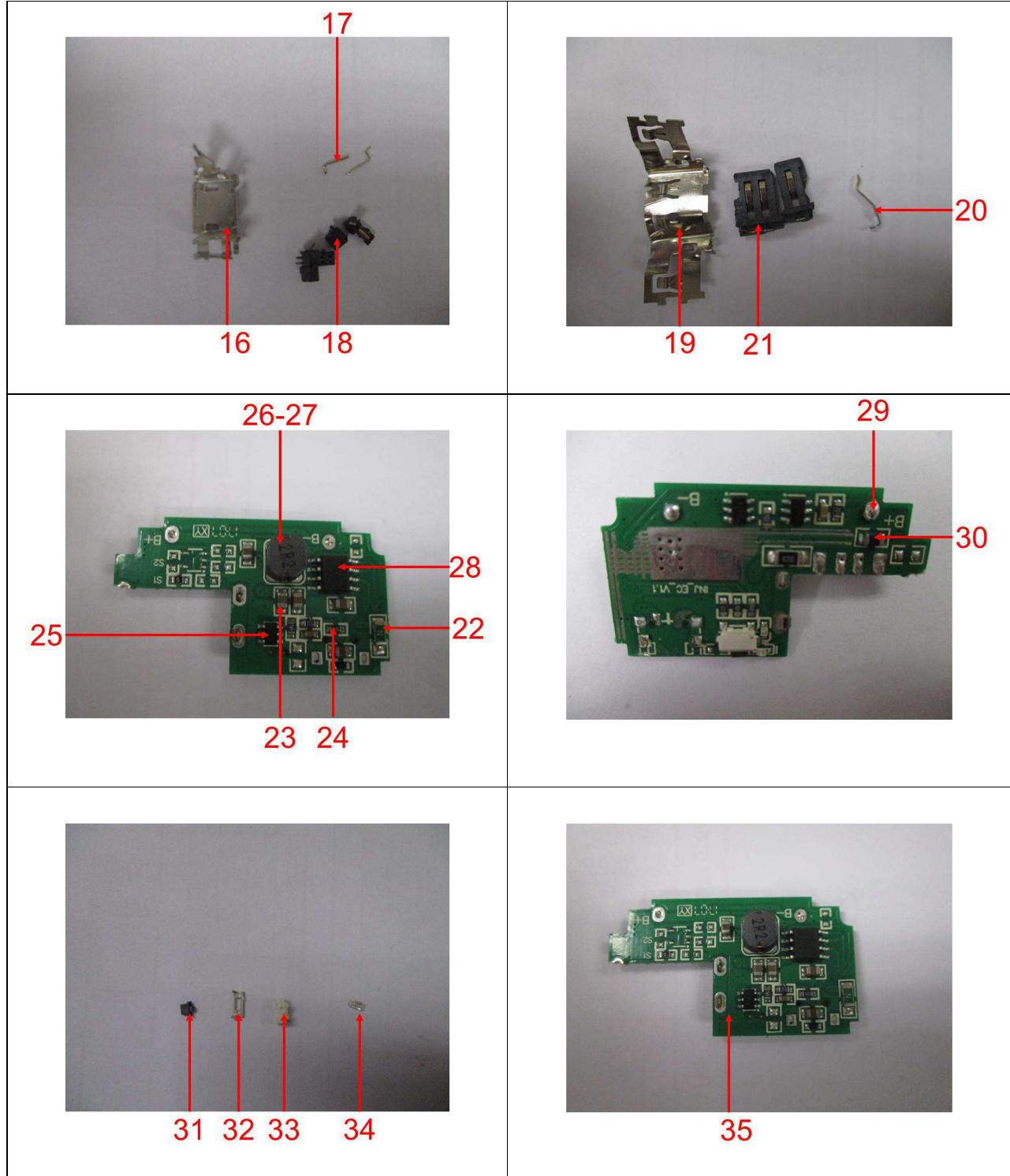
Photograph of test item(s)





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TEST RESULT

Compliance Test - European Parliament and 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.

Test Item(s)	Item / Component Description(s) + Location(s)	Style(s)
1	White label (case)	-
2	White plastic (sleeve)	-
3	Transparent label (case)	-
4	Translucent plastic (case)	-
5	Brown plastic (cover)	-
6	White plastic (case)	-
7	Black plastic (inner case)	-
8	Yellow transparent plastic (inner)	-
9	Green paper (plate)	-
10	Black foam (plate)	-
11	Silvery metal (connector)	-
12	Silvery solder (contact)	-
13	Red plastic (wire jacket)	-
14	Black plastic (wire jacket)	-
15	Silvery metal (wire)	-
16	Silvery metal (usb small plug)	-
17	Silvery metal (pin, usb small plug)	-
18	Black plastic (usb small plug)	-
19	Silvery metal (usb big plug)	-
20	Silvery metal (pin, usb big plug)	-
21	Black plastic (usb big plug)	-
22	Green/ white body (smd resistor, pcb)	-
23	Gray/ white body (smd capacitor, pcb)	-
24	Black/ white body (smd resistor, pcb)	-
25	Black body (ec, pcb)	-
26	Black core (coil holder, inductor, pcb)	-
27	Coppery metal (coil, inductor, pcb)	-
28	Black body (ic, pcb)	-
29	Silvery solder (pcb)	-
30	Black metal (pcb)	-
31	Black plastic (contact, switch, pcb)	-
32	Silvery plated golden metal (switch, pcb)	-
33	White plastic (switch, pcb)	-
34	Silvery metal (contact, switch, pcb)	-
35	Green pcb (inner)	-
36	Silvery metal (case)	-
37	Black plastic (cover)	-



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See Analytes and their corresponding Maximum Allowable Limit in Appendix

-	Result						
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)	-	-	-	-	-	-	-
1	ND	ND	ND	ND	ND	ND	PASS
2	ND	ND	ND	ND	ND	ND	PASS
3	ND	ND	ND	ND	ND	ND	PASS
4	ND	ND	ND	ND	ND	ND	PASS
5	ND	ND	ND	ND	ND	ND	PASS
6	ND	ND	ND	ND	ND	ND	PASS
7	ND	ND	ND	ND	ND	ND	PASS
8	ND	ND	ND	ND	ND	ND	PASS
9	ND	ND	ND	ND	ND	ND	PASS
10	ND	ND	ND	ND	ND	ND	PASS
11	ND	ND	ND	Negative*	NA	NA	PASS
12	ND	ND	ND	ND	NA	NA	PASS
13	ND	ND	ND	ND	ND	ND	PASS
14	ND	ND	ND	ND	ND	ND	PASS
15	ND	ND	ND	ND	NA	NA	PASS
16	ND	ND	ND	ND	NA	NA	PASS
17	ND	ND	ND	ND	NA	NA	PASS
18	ND	ND	ND	ND	ND	ND	PASS
19	ND	ND	ND	ND	NA	NA	PASS
20	ND	ND	ND	ND	NA	NA	PASS
21	ND	ND	ND	ND	ND	ND	PASS
22	ND	ND	ND	ND	ND	ND	PASS
23	ND	ND	ND	ND	ND	ND	PASS
24	ND	ND	ND	ND	ND	ND	PASS
25	ND	ND	ND	ND	ND	ND	PASS
26	ND	ND	ND	ND*	NA	NA	PASS
27	ND	ND	ND	ND	NA	NA	PASS
28	ND	ND	ND	ND	ND	ND	PASS
29	ND	ND	ND	ND	NA	NA	PASS
30	ND	ND	ND	ND	NA	NA	PASS
31	ND	ND	ND	ND	ND	ND	PASS
32	ND	ND	ND	ND	NA	NA	PASS
33	ND	ND	ND	ND	ND	ND	PASS
34	ND	ND	ND	NA	NA	NA	PASS
35	ND	ND	ND	ND	ND*	ND*	PASS
36	ND	ND	ND	ND	NA	NA	PASS
37	ND	ND	ND	ND	ND	ND	PASS



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Note / Key :

ND = Not detected
NR = Not requested
% = percent
Detection Limit : See Appendix.

“>” = Greater than
mg/kg = milligram(s) per kilogram = ppm = part(s) per million
10 000 mg/kg = 1 %

NA = Not applicable

Remark :

- The testing approach is listed in table of Appendix.
- *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 Parliament and 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.

APPENDIX

List of Analytes and their Corresponding Test Methods, Detection Limit and Maximum Allowable Limit [Compliance Test for European Parliament and Council Directive 2011/65/EU] :						
No.	Name of Analytes	Detection Limit (mg/kg)				Maximum Allowable Limit (mg/kg)
		X-ray fluorescence (XRF)^[a]			Wet Chemistry	
		Plastic	Metallic / glass / ceramic	Others		
1	Lead (Pb)	100	200	200	10 ^[b]	1 000
2	Cadmium (Cd)	50	50	50	10 ^[b]	100
3	Mercury (Hg)	100	200	200	10 ^[c]	1 000
4	Chromium (Cr)	100	200	200	NA	NA
5	Chromium VI (Cr VI)	NA	NA	NA	3 ^[g, h] / 10 ^[d] / See ^[e, i]	1 000 / Negative ^[j]
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 ^[f]	Sum 1 000
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 ^[f]	Sum 1 000
<p>NA = Not applicable</p> <p>^[a] Test method with reference to International Standard IEC 62321-3-1: 2013.</p> <p>^[b] Test method with reference to International Standard IEC 62321-5: 2013.</p> <p>^[c] Test method with reference to International Standard IEC 62321-4: 2013.</p> <p>^[d] Polymers and Electronics - Test method with reference to European Standard EN 62321: 2009, Annex C.</p> <p>^[e] Metal - Test method with reference to International Standard IEC 62321-7-1: 2015 [i].</p> <p>^[f] Test method with reference to International Standard IEC 62321-6: 2015.</p> <p>^[g] Leather - Test method International Standard ISO 17075: 2007.</p> <p>^[h] Other Than Metal, Leather, Polymers and Electronics - Test method with reference to International Standard ISO 17075: 2007.</p> <p>^[i] 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 Parliament and Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested</p> <p>^[j]</p>						



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areas and the result(s) was (were) regarded as in conflict with European Parliament and Council Directive 2011/65/EU, Article 4(1).

Testing Approach [Compliance Test for European Parliament and 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