



**BUREAU
VERITAS**

TEST REPORT

LAB NO. : (9311)248-0493
DATE : Sep 16, 2011
PAGE : 1 OF 8

APPLICANT : FLASHBAY ELECTRONICS (SHENZHEN) CO., LTD
3-5/F, BLDG B, XIFENGCHENG INDUSTRIAL PARK, NO.2
FUYUAN RD, 2ND HIGH-TECH AREA, HEPING, FUYONG,
BAOAN, SHENZHEN 518103, GUANGDONG PROVINCE,
P.R.CHINA

CONTACT PERSON : Henry Guo

DATE OF SUBMISSION : Sep 09, 2011

TEST PERIOD : Sep 09, 2011 to Sep 16, 2011

NO. OF WORKING DAYS : 5

SAMPLE DESCRIPTION : Voyager Series USB Flash Drive

Color: White

Style No.: VY

P.O. No.: /

Country of Origin: /

Country of Destination: /

MANUFACTURER : 天目电子（深圳）有限公司
深圳市宝安区福永街道和平高新二期福园二路西丰成工业园 B 栋
3, 4, 5 楼

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	

RW

**Bureau Veritas Consumer Products Services (Guangzhou)
Co.,Ltd**

No. 183, Shinan Road, Meilin Plaza Block B, Dongchong, Panyu,
Guangzhou, Guangdong Province, China 511453

Tel: (86) 20 2290 2088 Fax:(86) 20 3490 9303

Email: BVCPS_pyinfo@cn.bureauveritas.com

Website:cps.bureauveritas.com

C/N (9311)248-0493

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.mtl-acts.com> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

LAB NO. : (9311)248-0493
DATE : Sep 16, 2011
PAGE : 2 OF 8

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

PREPARED BY : Yaokun Liang

APPROVED BY:



CHARLES WONG
ANALYTICAL LAB MANAGER



JOEIE TSANG
REGIONAL LABORATORY DIRECTOR

REMARK

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

- a) Technical enquiry (86) 20 22902088 - 392 (386)
analytical-TS.PY@cn.bureauveritas.com
- b) General enquiry (86) 20 22902088 – 378(322)/(215)
analytical-enquiry.PY@cn.bureauveritas.com

Bureau Veritas Consumer Products Services (Guangzhou) Co.,Ltd
Address: No.183, Shi Nan Road, Mei Lin Plaza Block B, Dong Chong, 511453
Pan Yu, Guangzhou, Guang Dong, China
Tel : (86)20-22902088 Fax : (86)20-22902098
Email: BVCPs_pyinfo@cn.bureauveritas.com
Website: www.bureauveritas.com/cps

LAB NO. : (9311)248-0493
DATE : Sep 16, 2011
PAGE : 3 OF 8

Photo of the Submitted Sample



LAB NO. : (9311)248-0493
DATE : Sep 16, 2011
PAGE : 4 OF 8

TEST RESULT

Compliance Test - 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.

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
1	Silvery/coppery plated silvery metal	Hook	-
2	Silvery metal	Pole, hook	-
3	White coated grey leather	Case	-
4	White thread	Case	-
5	Silvery metal	Screw, case	-
6	Silvery/coppery plated silvery metal	Tail clip, case	-
7	Silvery/coppery plated silvery metal	Head clip, case	-
8	Silvery plated golden metal	Socket snap	-
9	Silvery plated golden metal	Spring, socket snap	-
10	Silvery plated golden metal	Snap cap	-
11	Silvery plated golden metal	Post, snap cap	-
12	Silvery plated golden metal	Stud snap	-
13	Silvery metal	Rivet, stud snap	-
14	Translucent glue	Case	-
15	Grey printed black soft plastic	Heat shrinkable tube, PCB cover	-
16	Silvery plated coppery metal	Case, USB connector	-
17	Black plastic	Socket, USB connector	-
18	Silvery/golden metal	Pin, USB connector	-
19	Black body	Large IC, PCB	-
20	Silvery metal	Pin, large IC, PCB	-
21	Grey printed black body	Small IC, PCB	-
22	Silvery metal	Pin, small IC, PCB	-
23	Black/grey body	Crystal, PCB	-
24	Black/white body	Small SMD resistor, PCB	-
25	Black/white body	Large SMD resistor, PCB	-
26	Brown body	Large SMD capacitor, PCB	-
27	Brown body	Middle SMD capacitor, PCB	-
28	Brown body	Small SMD capacitor, PCB	-
29	Black body	SMD inductor, PCB	-
30	Silvery solder	PCB	-
31	White printed green coated brown plastic with coppery metal	PCB	-

LAB NO. : (9311)248-0493
DATE : Sep 16, 2011
PAGE : 5 OF 8

See Analytes and their corresponding Maximum Allowable Limit in Appendix

Parameter	Result						Conclusion
	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs	PBDEs	
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item(s)	-	-	-	-	-	-	-
1	ND	ND	ND	ND	NA	NA	PASS
2	ND	ND	ND	ND	NA	NA	PASS
3	ND	ND	ND	810*	ND	ND	PASS
4	ND	ND	ND	ND	ND	ND	PASS
5	ND	ND	ND	ND	NA	NA	PASS
6	ND	ND	ND	ND	NA	NA	PASS
7	ND	ND	ND	ND	NA	NA	PASS
8	ND	ND	ND	ND	NA	NA	PASS
9	ND	ND	ND	ND	NA	NA	PASS
10	ND	ND	ND	ND	NA	NA	PASS
11	ND	ND	ND	ND	NA	NA	PASS
12	ND	ND	ND	ND	NA	NA	PASS
13	ND	ND	ND	ND	NA	NA	PASS
14	ND	ND	ND	ND*	ND	ND	PASS
15	ND	ND	ND	ND	ND	ND	PASS
16	ND	ND	ND	ND	NA	NA	PASS
17	ND	ND	ND	ND	ND*	ND*	PASS
18	ND	ND	ND	ND	NA	NA	PASS
19	ND	ND	ND	ND	ND	ND	PASS
20	ND	ND	ND	ND	NA	NA	PASS
21	ND	ND	ND	ND	ND	ND	PASS
22	ND	ND	ND	ND	NA	NA	PASS
23	ND	ND	ND	ND	ND	ND	PASS
24	<500	ND	ND	<500	ND	ND	PASS
25	<500	ND	ND	ND	ND	ND	PASS
26	ND	ND	ND	ND	ND	ND	PASS
27	ND	ND	ND	ND	ND	ND	PASS
28	ND	ND	ND	ND	ND	ND	PASS
29	ND	ND	ND	ND	ND	ND	PASS
30	ND	ND	ND	ND	NA	NA	PASS
31	ND	ND	ND	ND	ND*	ND*	PASS

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

10000 mg/kg = 1 %

Remark :

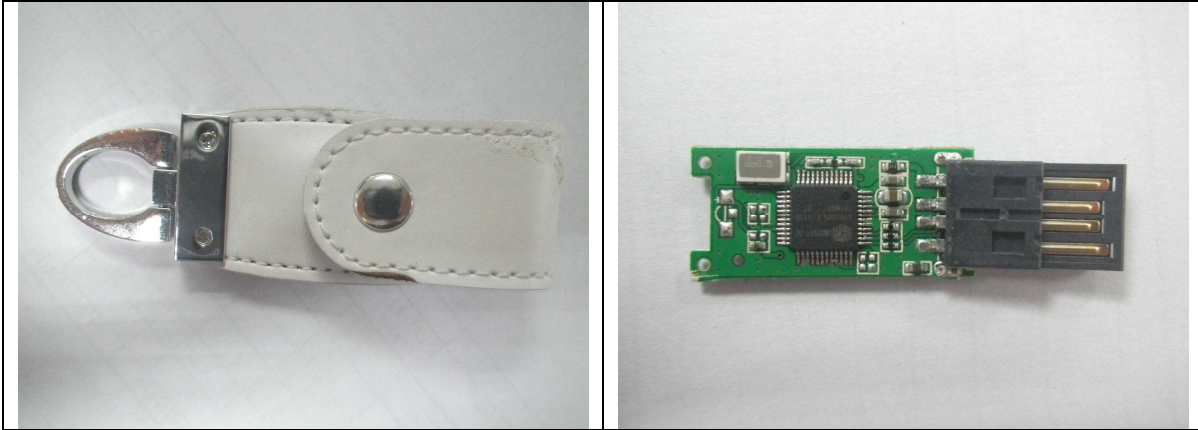
- The testing approach is listed in table of Appendix.
- * denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as 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 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.

LAB NO. : (9311)248-0493
DATE : Sep 16, 2011
PAGE : 6 OF 8

Comment :

Photograph(s) [Compliance Test for European Council Directive 2011/65/EU] :

Photograph of Test Item(s) with fail Test Item(s) highlighted



END

LAB NO. : (9311)248-0493
DATE : Sep 16, 2011
PAGE : 7 OF 8

APPENDIX

List of Analytes and their Corresponding Test Methods, Detection Limit and Maximum Allowable Limit [Compliance Test for European Council Directive 2011/65/EU] :							
No.	Name of Analytes	Detection Limit (mg/kg)				Wet Chemistry	Maximum Allowable Limit (mg/kg)
		X-ray fluorescence (XRF) ^[a]					
		Plastic	Metallic / glass / ceramic	Others			
1	Lead (Pb)	100	200	200	10 ^[b]	1000	
2	Cadmium (Cd)	50	50	50	10 ^[b]	100	
3	Mercury (Hg)	100	200	200	10 ^[c]	1000	
4	Chromium (Cr)	100	200	200	NA	NA	
5	Chromium VI (Cr VI)	NA	NA	NA	10 ^[d] / See ^[e, h]	1000 / Negative ^[h]	
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 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 ^[f]	Sum 1000	
NA = Not applicable ^[a] Test method with reference to EN 62321: 2009, Clause 6. ^[b] Test method with reference to EN 62321: 2009, Clauses 8, 9 and 10. ^[c] Test method with reference to EN 62321: 2009, Clause 7. ^[d] Test method with reference to EN 62321: 2009, Annex C. ^[e] Test method with reference to EN 62321: 2009, Annex B ^[g] . ^[f] Test method with reference to EN 62321: 2009, Annex A. ^[g] 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 2001/65/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 2001/65/EU, Article 4(1). ^[h]							

LAB NO. : (9311)248-0493
DATE : Sep 16, 2011
PAGE : 8 OF 8

Testing Approach [Compliance Test for European Council Directive 2011/65/EU] :	
The testing approach was with reference to the following document(s).	
1	“RoHS Enforcement Guidance Document Version 1” by EU RoHS Enforcement Authorities Informal Network. (May 2006)
2	“RoHS Regulations - Government Guidance Notes” by United Kingdom Department for Business Innovation & Skills. (February 2011)
3	“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)