



**BUREAU  
VERITAS**

# TEST REPORT

**LAB NO.** : (8816)063-0026  
**DATE** : Mar 22, 2016  
**PAGE** : 1 OF 11

**APPLICANT** : **JUSTFOG DONGGUAN CO., LTD.**  
BLDG, 3, DASHADUN INDUSTRIAL PARK,  
WUHAJIANGBEI VILLAGE, CHANG' AN TOWN,  
DONGGUAN.

**DATE OF SUBMISSION** : Mar 3, 2016

**TEST PERIOD** : Mar 3, 2016 TO Mar 22, 2016

**SAMPLE DESCRIPTION** : ELECTRONIC CIGARETTE

Style No. : JF-16VV, JF-Q16, JF-Q14, JF-G14, JF-S14, JF-C14

## 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	-

BUREAU VERITAS SHENZHEN CO.,LTD  
DONGGUAN BRANCH

Harvey Xue  
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RT/JW

### REMARK

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

Report Enquiry: (86) 0769 85935656 Ext. 8819 CPSAnalytical.DG@cn.bureauveritas.com


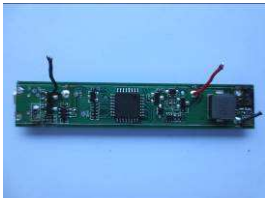
Business Contact: (86) 0769 85893595

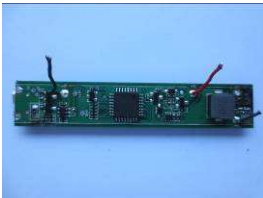

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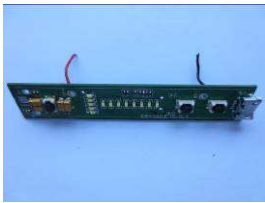



Photo of the Submitted Sample






**Test Item Description and Photo List**

Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
I001		Black plated silvery metal	Housing, power, electronic cigarette	-
I002		Black plated silvery metal	Screw, housing, power, electronic cigarette	-
I003		Grey coated black plastic	Sticker, housing, power, electronic cigarette	-
I004		Silver coated black plastic	Button, housing, power, electronic cigarette	-
I005		Silver coated black plastic	Button“+”, housing, power, electronic cigarette	-
I006		Beige plastic	Connector, housing, power, electronic cigarette	-
I007		Black plastic	Nut, housing, power, electronic cigarette	-
I008		Black plastic	Cover, AC plug, housing, power, electronic cigarette	-
I009		Black plastic	Screw holder, housing, power, electronic cigarette	-
I010		Beige soft plastic	Washer, shaft, housing, power, electronic cigarette	-
I011		Silvery metal	Shaft, housing, power, electronic cigarette	-
I012		Silvery metal	Nut, housing, power, electronic cigarette	-
I013		Silvery solder	Solder, nut, housing, power, electronic cigarette	-
I014		Black soft plastic	Wire insulation, PCB, power, electronic cigarette	-
I015		Red soft plastic	Wire insulation, PCB, power, electronic cigarette	-
I016		Silvery plated coppery metal	Wire, PCB, power, electronic cigarette	-
I017		Coppery metal	Coil, inductor, PCB, power, electronic cigarette	-
I018		Black body	Inductor, PCB, power, electronic cigarette	-
I019		Black body	Big IC, PCB, power, electronic cigarette	-

Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)	
I020		Silvery metal	Pin, big IC, PCB, power, electronic cigarette	-	
I021		Black body	Medium IC, PCB, power, electronic cigarette	-	
I022		Silvery metal	Pin, medium IC, PCB, power, electronic cigarette	-	
I023		Black body	Small IC, PCB, power, electronic cigarette	-	
I024		Silvery metal	Pin, small IC, PCB, power, electronic cigarette	-	
I025		Black body	SMD resistor, PCB, power, electronic cigarette	-	
I026		Brown body	SMD capacitor, PCB, power, electronic cigarette	-	
I027		White printed black body	SMD resistor, PCB, power, electronic cigarette	-	
I028		Black body	SMD diode, PCB, power, electronic cigarette	-	
I029		Black body	SMD transistor, PCB, power, electronic cigarette	-	
I030		Silvery solder	Solder, PCB, power, electronic cigarette	-	
I031			Silvery metal	Contact plate, AC plug, PCB, power, electronic cigarette	-
I032			Silvery metal	Pin, AC plug, PCB, power, electronic cigarette	-
I033	Black plastic		Pin holder, AC plug, PCB, power, electronic cigarette	-	
I034	Black plastic		Button, switch, PCB, power, electronic cigarette	-	
I035	Silvery metal		Case, switch, PCB, power, electronic cigarette	-	
I036	Silvery metal		Ring, switch, PCB, power, electronic cigarette	-	
I037	Beige plastic		Base, switch, PCB, power, electronic cigarette	-	
I038	Silvery metal		Contact plate, switch, PCB, power, electronic cigarette	-	
I039	Yellow body		SMD LED, PCB, power, electronic cigarette	-	
I040	Yellow/brown body		SMD EC, PCB, power, electronic cigarette	-	

Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
I041		Silvery solder	Solder, PCB, power, electronic cigarette	-
I042		Green coated brown plastic with coppery metal	PCB, power, electronic cigarette	-
I043		Black plastic	Cigarette holder, electronic cigarette	-
I044		Black soft plastic	Washer, cigarette holder, electronic cigarette	-
I045		Black soft plastic	Ring, cigarette holder, electronic cigarette	-
I046		Silvery metal	Cigarette holder, electronic cigarette	-
I047		Black printed transparent glass	Housing, atomizer, electronic cigarette	-
I048		Silvery metal	Shaft, atomizer, electronic cigarette	-
I049		Black soft plastic	Washer, atomizer, electronic cigarette	-
I050		Black soft plastic	Ring, atomizer, electronic cigarette	-
I051		Silvery metal	Housing, base, atomizer, electronic cigarette	-
I052		Black plated silvery metal	Washer, housing, base, atomizer, electronic cigarette	-
I053		Translucent soft plastic	Washer, base, atomizer, electronic cigarette	-
I054		Beige soft plastic	Washer, connector, base, atomizer, electronic cigarette	-
I055		Black soft plastic	Washer, connector, base, atomizer, electronic cigarette	-
I056		White plastic	Case, connector, base, atomizer, electronic cigarette	-
I057		Silvery metal	Connector, base, atomizer, electronic cigarette	-
I058		Silvery metal	Spring, connector, base, atomizer, electronic cigarette	-
I059		White fabric	Fabric, connector, base, atomizer, electronic cigarette	-
I060		Black soft plastic	Washer, lid, base, atomizer, electronic cigarette	-

Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
I061		Silvery metal	Lid, base, atomizer, electronic cigarette	-
I062		Black soft plastic	Washer, base, atomizer, electronic cigarette	-
I063		Silvery metal	Shaft, atomizer, electronic cigarette	-
I064		Black soft plastic	Washer, atomizer, electronic cigarette	-
I065		Silvery metal	Connector, atomizer, electronic cigarette	-
I066		Black soft plastic	Ring, connector, electronic cigarette	-
I067		Silvery metal	Housing, base, atomizer, electronic cigarette	-
I068		Black plated silvery metal	Washer, housing, base, atomizer, electronic cigarette	-
I069		Silvery plated coppery metal	Nut, base, atomizer, electronic cigarette	-
I070		Silvery metal	Connector, base, atomizer, electronic cigarette	-
I071		Beige soft plastic	Washer, connector, base, atomizer, electronic cigarette	-
I072		Black soft plastic	Washer, base, atomizer, electronic cigarette	-
I073		Black soft plastic	Ring, base, atomizer, electronic cigarette	-
I074		Beige soft plastic	Washer, base, atomizer, electronic cigarette	-
I075		Silvery metal	Buckle, base, atomizer, electronic cigarette	-

**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.

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						-
Test Item(s)	-	-	-	-	-	-	-
I001	ND	ND	ND	ND	NA	NA	PASS
I002	ND	ND	ND	Negative*	NA	NA	PASS
I003	ND	ND	ND	ND	ND	ND	PASS
I004	ND	ND	ND	ND	ND	ND	PASS
I005	ND	ND	ND	ND	ND	ND	PASS
I006	ND	ND	ND	ND	ND	ND	PASS
I007	ND	ND	ND	ND	ND	ND	PASS
I008	ND	ND	ND	ND	ND	ND	PASS
I009	ND	ND	ND	ND	ND	ND	PASS
I010	ND	ND	ND	ND	ND	ND	PASS
I011	22000*	ND	ND	ND	NA	NA	EXEMPTED <sup>#</sup>
I012	27000*	ND	ND	ND	NA	NA	EXEMPTED <sup>#</sup>
I013	< 500	ND	ND	ND	NA	NA	PASS
I014	ND	ND	ND	ND	ND	ND	PASS
I015	ND	ND	ND	ND	ND	ND	PASS
I016	ND	ND	ND	ND	NA	NA	PASS
I017	ND	ND	ND	ND	NA	NA	PASS
I018	ND	ND	ND	ND	NA	NA	PASS
I019	ND	ND	ND	ND	ND	ND	PASS
I020	ND	ND	ND	ND	NA	NA	PASS
I021	ND	ND	ND	ND	ND	ND	PASS
I022	ND	ND	ND	ND	NA	NA	PASS
I023	ND	ND	ND	ND	ND	ND	PASS
I024	ND	ND	ND	ND	NA	NA	PASS
I025	ND	ND	ND	ND	ND	ND	PASS

Parameter	Result						Conclusion
	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs	PBDEs	
Unit	mg/kg						-
Test Item(s)	-	-	-	-	-	-	-
I026	ND	ND	ND	ND	ND	ND	PASS
I027	ND	ND	ND	ND	ND	ND	PASS
I028	ND	ND	ND	ND	ND	ND	PASS
I029	ND	ND	ND	ND	ND	ND	PASS
I030	< 500	ND	ND	ND	NA	NA	PASS
I031	ND	ND	ND	ND	NA	NA	PASS
I032	ND	ND	ND	ND	NA	NA	PASS
I033	ND	ND	ND	ND	ND	ND	PASS
I034	ND	ND	ND	ND	ND	ND	PASS
I035	ND	ND	ND	ND	NA	NA	PASS
I036	ND	ND	ND	Negative*	NA	NA	PASS
I037	ND	ND	ND	ND	ND	ND	PASS
I038	ND	ND	ND	ND	NA	NA	PASS
I039	ND	ND	ND	ND	ND	ND	PASS
I040	ND	ND	ND	ND	ND	ND	PASS
I041	ND	ND	ND	ND	NA	NA	PASS
I042	ND	ND	ND	ND	ND*	ND*	PASS
I043	ND	ND	ND	ND	ND	ND	PASS
I044	ND	ND	ND	ND	ND	ND	PASS
I045	ND	ND	ND	ND	ND	ND	PASS
I046	ND	ND	ND	ND	NA	NA	PASS
I047	ND	ND	ND	ND	ND	ND	PASS
I048	ND	ND	ND	ND	NA	NA	PASS
I049	ND	ND	ND	ND	ND	ND	PASS
I050	ND	ND	ND	ND	ND	ND	PASS
I051	32000*	ND	ND	ND	NA	NA	EXEMPTED <sup>#</sup>
I052	ND	ND	ND	Negative*	NA	NA	PASS
I053	ND	ND	ND	ND	ND	ND	PASS
I054	ND	ND	ND	ND	ND	ND	PASS
I055	ND	ND	ND	ND	ND	ND	PASS
I056	ND	ND	ND	ND	ND	ND	PASS
I057	29000*	ND	ND	ND	NA	NA	EXEMPTED <sup>#</sup>
I058	ND	ND	ND	Negative*	NA	NA	PASS
I059	ND	ND	ND	ND	ND	ND	PASS
I060	ND	ND	ND	ND	ND	ND	PASS





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Parameter	Result						Conclusion
	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs	PBDEs	
Unit	mg/kg						-
Test Item(s)	-	-	-	-	-	-	-
I061	ND	ND	ND	Negative*	NA	NA	PASS
I062	ND	ND	ND	ND	ND	ND	PASS
I063	ND	ND	ND	ND	NA	NA	PASS
I064	ND	ND	ND	ND	ND	ND	PASS
I065	25000*	ND	ND	ND	NA	NA	EXEMPTED <sup>#</sup>
I066	ND	ND	ND	ND	ND	ND	PASS
I067	ND	ND	ND	ND	NA	NA	PASS
I068	ND	ND	ND	Negative*	NA	NA	PASS
I069	22000*	ND	ND	ND	NA	NA	EXEMPTED <sup>#</sup>
I070	21000*	ND	ND	ND	NA	NA	EXEMPTED <sup>#</sup>
I071	ND	ND	ND	ND	ND	ND	PASS
I072	ND	ND	ND	ND	ND	ND	PASS
I073	ND	ND	ND	ND	ND	ND	PASS
I074	ND	ND	ND	ND	ND	ND	PASS
I075	ND	ND	ND	Negative*	NA	NA	PASS

Note / Key:

ND = Not detected  
 NR = Not requested  
 NA = Not applicable  
 Detection Limit : See Appendix.

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

“<” = Less than  
 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.
- 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) 011, 012, 051, 057, 065, 069 and 070 were claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.
- The item(s) 013 was provided by client dated on Mar 17, 2016.

**APPENDIX**

<b>List of Analytes and their Corresponding Test Methods, Detection Limit and Maximum Allowable Limit</b>							
<b>[ Compliance Test for European Parliament and Council Directive 2011/65/EU ] :</b>							
<b>No.</b>	<b>Name of Analytes</b>	<b>Detection Limit (mg/kg)</b>				<b>Wet Chemistry</b>	<b>Maximum Allowable Limit (mg/kg)</b>
		<b>X-ray fluorescence (XRF)<sup>[a]</sup></b>					
		<b>Plastic</b>	<b>Metallic / glass / ceramic</b>	<b>Others</b>			
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, h]</sup> / 10 <sup>[d]</sup> / Sec <sup>[e, i]</sup>	1000 / Negative <sup>[j]</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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**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 ] :**

NA = Not applicable

- [a] Test method with reference to International Standard IEC 62321-3-1: 2013.
- [b] Test method with reference to International Standard IEC 62321-5: 2013.
- [c] Test method with reference to International Standard IEC 62321-4: 2013.
- [d] Polymers and Electronics - Test method with reference to International Standard IEC 62321: 2008, Annex C.
- [e] Metal - Test method with reference to International Standard IEC 62321-7-1: 2015.
- [f] Test method with reference to International Standard IEC 62321-6: 2015.
- [g] Leather - Test method International Standard ISO 17075: 2007.
- [h] Other Than Metal, Leather, Polymers and Electronics - Test method with reference to International Standard ISO 17075: 2007.
- [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 areas and the result(s) was (were) regarded as in conflict with European Parliament and Council Directive 2011/65/EU, Article 4(1).
- [j]

**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 of Report \*\*\*