



**BUREAU
VERITAS**

TEST REPORT

LAB NO. : (8815)344-0001
DATE : Dec 25, 2015
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APPLICANT : **INNOKIN TECHNOLOGY CO., LTD**
BUILDING6, XINXINTIAN INDUSTRIAL PARK, XINSHA
ROAD, SHAJING, BAOAN DISTRICT, SHENZHEN, CHINA

DATE OF SUBMISSION : Dec 10, 2015

TEST PERIOD : Dec 10, 2015 to Dec 25, 2015

SAMPLE DESCRIPTION : ENDURA T22, PRISM T22

Style No. : ENDURA T22, PRISM T22

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
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RT/CZ

REMARK

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Photo of the Submitted Sample

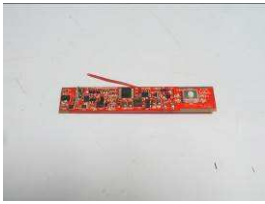





Test Item Description And Photo List

Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
I001		Silvery metal	Cigarette holder, Endura T22, prism T22	-
I002		Translucent soft plastic	Washer, cigarette holder, Endura T22, prism T22	-
I003		Silvery metal	Lid, holder, atomizer, Endura T22, prism T22	-
I004		Silvery metal	Holder, atomizer, Endura T22, prism T22	-
I005		Transparent glass	Holder, atomizer, Endura T22, prism T22	-
I006		Black soft plastic	Washer, holder, atomizer, Endura T22, prism T22	-
I007		Silvery metal	Base, holder, atomizer, Endura T22, prism T22	-
I008		Silvery metal	Screw, atomizer, Endura T22, prism T22	-
I009		Silvery metal	Housing, atomizer, Endura T22, prism T22	-
I010		White fabric	Cotton, atomizer, Endura T22, prism T22	-
I011		Silvery metal	Holder, cotton, atomizer, Endura T22, prism T22	-
I012		Silvery metal	Shaft, atomizer, Endura T22, prism T22	-
I013		Silvery metal	Connector, atomizer, Endura T22, prism T22	-
I014		Silvery metal	Spring, atomizer, Endura T22, prism T22	-
I015		Translucent soft plastic	Sleeve, spring, atomizer, Endura T22, prism T22	-
I016		Translucent soft plastic	Base, atomizer, Endura T22, prism T22	-
I017		White soft plastic	Washer, atomizer, Endura T22, prism T22	-
I018		Translucent soft plastic	Ring, atomizer, Endura T22, prism T22	-
I019		Grey soft plastic	Ring, atomizer, Endura T22, prism T22	-

Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
I020		Blue plated silvery metal	Housing, PCB, Endura T22, prism T22	-
I021		Silvery metal	Lid, housing, PCB, Endura T22, prism T22	-
I022		Silvery metal	Contact plate, lid, housing, PCB, Endura T22, prism T22	-
I023		Silvery metal	Base, housing, PCB, Endura T22, prism T22	-
I024		Silvery metal	Contact plate, base, housing, PCB, Endura T22, prism T22	-
I025		Black printed white paper	Bar code, housing, PCB, Endura T22, prism T22	-
I026		White glue	Glue, housing, PCB, Endura T22, prism T22	-
I027		Silvery metal	Button, housing, PCB, Endura T22, prism T22	-
I028		Grey/translucent plastic	Holder, button, housing, PCB, Endura T22, prism T22	-
I029		White soft plastic	Mat, button, housing, PCB, Endura T22, prism T22	-
I030		Silvery metal	Connector, housing, PCB, Endura T22, prism T22	-
I031		Golden metal	Shaft, connector, housing, PCB, Endura T22, prism T22	-
I032		Translucent plastic	Washer, shaft, connector, housing, PCB, Endura T22, prism T22	-
I033		Silvery metal	Spring, connector, housing, PCB, Endura T22, prism T22	-
I034		Dark brown plastic	Spring holder, connector, housing, PCB, Endura T22, prism T22	-
I035		Silvery metal	Contact plate, connector, housing, PCB, Endura T22, prism T22	-
I036		Grey printed black soft plastic	Wire insulation, connector, housing, PCB, Endura T22, prism T22	-
I037		Silvery plated coppery metal	Wire, connector, housing, PCB, Endura T22, prism T22	-
I038		Silvery solder	Solder, wire, connector, housing, PCB, Endura T22, prism T22	-

Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
I039		Transparent soft plastic	Sleeve, switch, PCB, Endura T22, prism T22	-
I040		White soft plastic	Button, switch, PCB, Endura T22, prism T22	-
I041		Silvery metal	Case, switch, PCB, Endura T22, prism T22	-
I042		Silvery metal	Ring, switch, PCB, Endura T22, prism T22	-
I043		Black plastic	Base, switch, PCB, Endura T22, prism T22	-
I044		Silvery metal	Contact plate, switch, PCB, Endura T22, prism T22	-
I045		Silvery metal	Pin, AC plug, PCB, Endura T22, prism T22	-
I046		Black plastic	Pin holder, AC plug, PCB, Endura T22, prism T22	-
I047		Silvery metal	Contact plate, AC plug, PCB, Endura T22, prism T22	-
I048		Black printed dark grey body	Inductor“L2”, PCB, Endura T22, prism T22	-
I049		Coppery metal	Coil, inductor“L2”, PCB, Endura T22, prism T22	-
I050		Black body	Inductor“L5”, PCB, Endura T22, prism T22	-
I051		Coppery metal	Coil, inductor“L5”, PCB, Endura T22, prism T22	-
I052		Black body	IC“U1”, PCB, Endura T22, prism T22	-
I053		Silvery metal	Pin, IC“U1”, PCB, Endura T22, prism T22	-
I054		Black body	IC“U6”, PCB, Endura T22, prism T22	-
I055		Silvery metal	Pin, IC“U6”, PCB, Endura T22, prism T22	-
I056		Black body	IC“U5”, PCB, Endura T22, prism T22	-
I057		Silvery metal	Pin, IC“U5”, PCB, Endura T22, prism T22	-
I058	Black body	IC“U8”, PCB, Endura T22, prism T22	-	
I059	Silvery metal	Pin, IC“U8”, PCB, Endura T22, prism T22	-	

Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
I060		Black body	SMD IC, PCB, Endura T22, prism T22	-
I061		Black body	SMD resistor, PCB, Endura T22, prism T22	-
I062		Brown body	SMD capacitor, PCB, Endura T22, prism T22	-
I063		Brown body	Small SMD capacitor, PCB, Endura T22, prism T22	-
I064		White printed black body	SMD resistor, PCB, Endura T22, prism T22	-
I065		White printed black body	Small SMD resistor, PCB, Endura T22, prism T22	-
I066		White body	SMD LED, PCB, Endura T22, prism T22	-
I067		Black body	SMD diode, PCB, Endura T22, prism T22	-
I068		Black body	SMD transistor, PCB, Endura T22, prism T22	-
I069		Grey printed red soft plastic	Wire insulation, PCB, Endura T22, prism T22	-
I070		Silvery plated coppery metal	Wire, PCB, Endura T22, prism T22	-
I071		Silvery solder	Solder, PCB, Endura T22, prism T22	-
I072		Red coated brown plastic with coppery metal	PCB, Endura T22, prism T22	-
I073			Silvery metal	Long screw, Endura T22, prism T22
I074	Silvery metal		Medium screw, Endura T22, prism T22	-
I075	Silvery metal		Short screw, Endura T22, prism T22	-
I076		Black printed white paper	Bar code, USB plug, adapter, Endura T22, prism T22	-
I077		Golden metal	Pin, USB plug, adapter, Endura T22, prism T22	-
I078		White plastic	Pin holder, USB plug, adapter, Endura T22, prism T22	-
I079		Silvery metal	Contact plate, USB plug, adapter, Endura T22, prism T22	-
I080		Silvery solder	Solder, USB plug, adapter, Endura T22, prism T22	-

Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
I081		Dark grey/green printed white soft plastic	Cover, USB plug, adapter, Endura T22, prism T22	-
I082		White soft plastic	Wire jacket, adapter, Endura T22, prism T22	-
I083		White soft plastic	Wire insulation, adapter, Endura T22, prism T22	-
I084		Red soft plastic	Wire insulation, adapter, Endura T22, prism T22	-
I085		Black soft plastic	Wire insulation, adapter, Endura T22, prism T22	-
I086		Green soft plastic	Wire insulation, adapter, Endura T22, prism T22	-
I087		Coppery metal	Wire, adapter, Endura T22, prism T22	-
I088		Silvery metal	Pin, AC plug, adapter, Endura T22, prism T22	-
I089		Black plastic	Pin holder, AC plug, adapter, Endura T22, prism T22	-
I090		Silvery metal	Contact plate, AC plug, adapter, Endura T22, prism T22	-
I091		White soft plastic	Cover, AC plug, adapter, Endura T22, prism T22	-
I092		Blue plated silvery metal	Cigarette holder, Endura T22, prism T22	-
I093		Blue plated silvery metal	Lid, holder, atomizer, Endura T22, prism T22	-
I094		Blue plated silvery metal	Holder, atomizer, Endura T22, prism T22	-
I095		Blue plated silvery metal	Base, holder, atomizer, Endura T22, prism T22	-
I096		Black printed blue plated silvery metal	Housing, PCB, Endura T22, prism T22	-
I097		Black plated silvery metal	Cigarette holder, Endura T22, prism T22	-
I098		Black plated silvery metal	Lid, holder, atomizer, Endura T22, prism T22	-
I099		Grey printed black plated silvery metal	Holder, atomizer, Endura T22, prism T22	-
I100		Black plated silvery metal	Base, holder, atomizer, Endura T22, prism T22	-
I101		Red printed black plated silvery metal	Housing, PCB, Endura T22, prism T22	-

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	Negative*	NA	NA	PASS
I002	ND	ND	ND	ND	ND	ND	PASS
I003	ND	ND	ND	Negative*	NA	NA	PASS
I004	ND	ND	ND	Negative*	NA	NA	PASS
I005	ND	ND	ND	ND	ND	ND	PASS
I006	ND	ND	ND	ND	ND	ND	PASS
I007	ND	ND	ND	Negative*	NA	NA	PASS
I008	34000*	ND	ND	ND	NA	NA	EXEMPTED [#]
I009	ND	ND	ND	Negative*	NA	NA	PASS
I010	ND	ND	ND	ND	ND	ND	PASS
I011	30000*	ND	ND	ND	NA	NA	EXEMPTED [#]
I012	32000*	ND	ND	ND	NA	NA	EXEMPTED [#]
I013	ND	ND	ND	Negative*	NA	NA	PASS
I014	ND	ND	ND	Negative*	NA	NA	PASS
I015	ND	ND	ND	ND	ND	ND	PASS
I016	ND	ND	ND	ND	ND	ND	PASS
I017	ND	ND	ND	ND	ND	ND	PASS
I018	ND	ND	ND	ND	ND	ND	PASS
I019	ND	ND	ND	ND	ND	ND	PASS
I020	ND	ND	ND	Negative*	NA	NA	PASS
I021	ND	ND	ND	Negative*	NA	NA	PASS
I022	ND	ND	ND	ND	NA	NA	PASS
I023	ND	ND	ND	Negative*	NA	NA	PASS
I024	ND	ND	ND	ND	NA	NA	PASS
I025	ND	ND	ND	ND	ND	ND	PASS
I026	ND	ND	ND	ND	ND	ND	PASS
I027	ND	ND	ND	Negative*	NA	NA	PASS



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I028	ND	ND	ND	ND	ND	ND	PASS
I029	ND	ND	ND	ND	ND	ND	PASS
I030	ND	ND	ND	Negative*	NA	NA	PASS
I031	27000*	ND	ND	ND	NA	NA	EXEMPTED [#]
I032	ND	ND	ND	ND	ND	ND	PASS
I033	ND	ND	ND	Negative*	NA	NA	PASS
I034	ND	ND	ND	ND	ND	ND	PASS
I035	ND	ND	ND	ND	NA	NA	PASS
I036	ND	ND	ND	ND	ND	ND	PASS
I037	ND	ND	ND	ND	NA	NA	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	Negative*	NA	NA	PASS
I042	ND	ND	ND	Negative*	NA	NA	PASS
I043	ND	ND	ND	ND	ND	ND	PASS
I044	ND	ND	ND	ND	NA	NA	PASS
I045	ND	ND	ND	ND	NA	NA	PASS
I046	ND	ND	ND	ND	ND	ND	PASS
I047	ND	ND	ND	Negative*	NA	NA	PASS
I048	ND	ND	ND	ND	NA	NA	PASS
I049	ND	ND	ND	ND	NA	NA	PASS
I050	ND	ND	ND	ND	NA	NA	PASS
I051	ND	ND	ND	ND	NA	NA	PASS
I052	ND	ND	ND	ND	ND	ND	PASS
I053	ND	ND	ND	ND	NA	NA	PASS
I054	ND	ND	ND	ND	ND	ND	PASS
I055	ND	ND	ND	ND	NA	NA	PASS
I056	ND	ND	ND	ND	ND	ND	PASS
I057	ND	ND	ND	ND	NA	NA	PASS
I058	ND	ND	ND	ND	ND	ND	PASS
I059	ND	ND	ND	ND	NA	NA	PASS
I060	ND	ND	ND	ND	ND	ND	PASS
I061	ND	ND	ND	ND	ND	ND	PASS
I062	ND	ND	ND	ND	ND	ND	PASS
I063	ND	ND	ND	ND	ND	ND	PASS
I064	ND	ND	ND	ND	ND	ND	PASS
I065	ND	ND	ND	ND	ND	ND	PASS
I066	ND	ND	ND	ND	ND	ND	PASS
I067	ND	ND	ND	ND	ND	ND	PASS
I068	ND	ND	ND	ND	ND	ND	PASS



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I069	ND	ND	ND	ND	ND	ND	PASS
I070	ND	ND	ND	ND	NA	NA	PASS
I071	ND	ND	ND	ND	NA	NA	PASS
I072	ND	ND	ND	ND	ND*	ND*	PASS
I073	ND	ND	ND	Negative*	NA	NA	PASS
I074	ND	ND	ND	Negative*	NA	NA	PASS
I075	ND	ND	ND	Negative*	NA	NA	PASS
I076	ND	ND	ND	ND	ND	ND	PASS
I077	ND	ND	ND	ND	NA	NA	PASS
I078	ND	ND	ND	ND	ND	ND	PASS
I079	ND	ND	ND	ND	NA	NA	PASS
I080	ND	ND	ND	ND	NA	NA	PASS
I081	ND	ND	ND	ND	ND	ND	PASS
I082	ND	ND	ND	ND	ND	ND	PASS
I083	ND	ND	ND	ND	ND	ND	PASS
I084	ND	ND	ND	ND	ND	ND	PASS
I085	ND	ND	ND	ND	ND	ND	PASS
I086	ND	ND	ND	ND	ND	ND	PASS
I087	ND	ND	ND	ND	NA	NA	PASS
I088	ND	ND	ND	Negative*	NA	NA	PASS
I089	ND	ND	ND	ND	ND	ND	PASS
I090	ND	ND	ND	Negative*	NA	NA	PASS
I091	ND	ND	ND	ND	ND	ND	PASS
I092	ND	ND	ND	Negative*	NA	NA	PASS
I093	ND	ND	ND	Negative*	NA	NA	PASS
I094	ND	ND	ND	Negative*	NA	NA	PASS
I095	ND	ND	ND	Negative*	NA	NA	PASS
I096	ND	ND	ND	Negative*	NA	NA	PASS
I097	ND	ND	ND	ND	NA	NA	PASS
I098	ND	ND	ND	Negative*	NA	NA	PASS
I099	ND	ND	ND	Negative*	NA	NA	PASS
I100	ND	ND	ND	Negative*	NA	NA	PASS
I101	ND	ND	ND	Negative*	NA	NA	PASS

Note / Key:

ND = Not detected
 NA = Not applicable
 % = percent

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

Detection Limit : See Appendix.



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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) 008, 011, 012&031 were claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.
-

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)				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]	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] / Sec ^[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	



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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 European Standard EN 62321: 2009, Annex C.
- [e] Metal - Test method with reference to European Standard EN 62321: 2009, Annex B^[1].
- [f] Test method with reference to European Standard EN 62321: 2009, Annex A.
- [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 ***