



**APPLICATION FOR RoHS DIRECTIVE**

**On Behalf of**

**EPORT SDN BHD**

**IONSPEC EYE FRAME**

**IONSPEC**

**Prepared for :** EPORT SDN BHD

**Address:** Berjaya Times Square A17-11, No 1, Jalan Imbi, 55100,  
Kuala Lumpur, Malaysia

**Prepared By :** Shenzhen Alpha Product Testing Co., Ltd.

**Address:** Building B, East Area of Nanchang Second Industrial Zone,  
Gushu 2<sup>nd</sup> Road, Bao'an District, Shenzhen 518126, P.R.  
China

**Date of Test:** October 21 - 26, 2015

**Date of Report:** October 26, 2015

**Report Number:** T1851539 01

**Version Number:** REV0

**TEST REPORT**  
**IEC 62321-3-1:2013, IEC 62321-5:2013,**  
**IEC 62321-4:2013, IEC 62321:2008, IEC 62321-6:2015**  
**Restriction of Hazardous Substance**

**Report Reference No.** .....: T1851539 01

**Tested by (name + signature)** .....: Rev Yuan

**Approved by (name + signature)** .....: Susan Chen

**Date of issue** .....: October 26, 2015



**Testing Laboratory** .....: Shenzhen Alpha Product Testing Co., Ltd.

**Address** .....: Building B, East Area of Nanchang Second Industrial Zone, Gushu 2<sup>nd</sup> Road, Bao'an District, Shenzhen 518126, P.R. China

**Testing location / procedure** .....: TL [  ]      SMT [  ]      TMP [  ]

**Testing location / address** .....: (Same as above.)

**Applicant's name** .....: EPORT SDN BHD

**Address** .....: Berjaya Times Square A17-11, No 1, Jalan Imbi, 55100, Kuala Lumpur, Malaysia

**Test specification:**

**Standard** .....: IEC 62321-3-1:2013, IEC 62321-5:2013, IEC 62321-4:2013,  
 IEC 62321:2008, IEC 62321-6:2015

**Test procedure** .....: RoHS procedure

**Non-standard test method** .....: N/A

**Test item description** .....: IONSPEC EYE FRAME

**Model/Type reference** .....: IONSPEC

**Trademark** .....: IONSPEC

**Manufacturer** .....: EPORT SDN BHD

**Address** .....: Berjaya Times Square A17-11, No 1, Jalan Imbi, 55100, Kuala Lumpur, Malaysia

**Possible test case verdicts:**

P=Pass, F=Fail, IC=Inconclusive, -- = Not Regulated

N.D. = Not Detected (<MDL)

Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating.

**Testing**

**Date of receipt of test item** .....: October 21, 2015

**Date (s) of performance of tests** .....: October 21 - 26, 2015

**General remarks:**

The test results presented in this report relate only to the object tested.  
 This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

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## Test Result

(1) As per IEC 62321-3-1:2013, screened by XRF spectroscopy.

No.	Component Description	Test Item	XRF Result
1	Transparent purple plastic frame	Cadmium ( Cd )	P
		Lead ( Pb )	P
		Mercury ( Hg )	P
		Chromium (Cr)	P
		Bromine (Br)	P
2	Transparent plastic lens	Cadmium ( Cd )	P
		Lead ( Pb )	P
		Mercury ( Hg )	P
		Chromium (Cr)	P
		Bromine (Br)	P
3	Black plastic	Cadmium ( Cd )	P
		Lead ( Pb )	P
		Mercury ( Hg )	P
		Chromium (Cr)	P
		Bromine (Br)	P
4	Silver color metal	Cadmium ( Cd )	P
		Lead ( Pb )	P
		Mercury ( Hg )	P
		Chromium (Cr)	P
		Bromine (Br)	--

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## Test Result

Remark:

- (1) (a) There are the results on total Br while test items on restricted substances are PBBs and PBDEs. There is the result on total Cr while test item on restricted substances is Cr(VI).  
(b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC62321 (unit: mg/kg).

Element	Polymer Material	Metallic Material	Composite Material
Cadmium ( Cd )	$P \leq 70 - 3\sigma < IC < 130 + 3\sigma \leq F$	$P \leq 70 - 3\sigma < IC < 130 + 3\sigma \leq F$	$P \leq 50 - 3\sigma < IC < 150 + 3\sigma \leq F$
Lead ( Pb )	$P \leq 700 - 3\sigma < IC < 1300 + 3\sigma \leq F$	$P \leq 700 - 3\sigma < IC < 1300 + 3\sigma \leq F$	$P \leq 500 - 3\sigma < IC < 1500 + 3\sigma \leq F$
Mercury ( Hg )	$P \leq 700 - 3\sigma < IC < 1300 + 3\sigma \leq F$	$P \leq 700 - 3\sigma < IC < 1300 + 3\sigma \leq F$	$P \leq 500 - 3\sigma < IC < 1500 + 3\sigma \leq F$
Chromium (Cr)	$P \leq 700 - 3\sigma < IC$	$P \leq 700 - 3\sigma < IC$	$P \leq 500 - 3\sigma < IC$
Bromine (Br)	$P \leq 300 - 3\sigma < IC$	--	$P \leq 250 - 3\sigma < IC$

(c) mg/kg = milligram per kilogram

- (2) (a) mg/kg = 0.0001%, MDL = Method Detection Limit.

(b) Test Method for Chemical Confirmation

Test Item	Test Method	Test Instrument	MDL (mg/kg)	EU RoHS Limit (mg/kg)
Cd	IEC 62321-5:2013	ICP-OES	2	100
Pb	IEC 62321-5:2013	ICP-OES	2	1000
Hg	IEC 62321-4:2013	ICP-OES	2	1000
Cr(VI)	IEC 62321:2008	UV-Vis	0.02 (50 cm <sup>2</sup> )	1000
PBBs, PBDEs	IEC 62321-6:2015	GC-MS	5	1000

(c) According to IEC 62321:2008, result on Cr(VI) for metal sample is shown as Positive/Negative.

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## Tested sample photos



--- End of report ---