Test Report

Applicant	Shenzhen Honglan Electronics Co., Ltd
Address	223, No. 1 Langrong Road, Xinshi Community, Dalang Street, Longhua District, Shenzhen

The following sample(s)was /were submitted and identified on behalf of the clients as :

Sample Name	USB camera module
Trademark	**Lensesca**
Main Test Model	HL-4K-362, HL-100W-01, DH-4K-003
Additional Model	HL-362-02, HL-4K-415, HL-200W-01
Manufacturer	Shenzhen Honglan Electronics Co., Ltd
Address	223, No. 1 Langrong Road, Xinshi Community, Dalang Street, Longhua District, Shenzhen
Sample Received Date	Sep.30,2026
Testing Period	Sep.30,2026 ~ Oct.10,2026
Test Requested Test Method	Test samples according to customer requirements
Test Result	PASS

Gb7nq5j Xb2ng5v

Signed for and on behalf of:

Liw wang/Manager Date of issue : Oct.10,2026

Shenzhen Tianqi Testing Technology Service Co., Ltd.

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Shenzhen Tianqi Testing Technology Service Co., Ltd.
Add:6th Floor, Bui lding B, Quewei Building, No. 5 Fuyu Road, Pinghu Street, Longgang District, Shenzhen,Guangdong, China
Tel：400-116-8280 Website：www.sztqtts.com E-mail：service@szxh-lab.com

RESULT SUMMARY:

No.	Standard and Requirement	Conclusion(s)
1	RoHS Directive 2011/65/EU -XRF scanning	**PASS**
2	RoHS Directive 2011/65/EU and its subsequent amendments (EU)2015/863 -Pb/Cd/Hg/CrVI Content -Polybrominated diphenylethers(PBDEs) -Polybrominated biphenyls(PBBs) -Phthalates	**PASS**

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Test Content:

Test Item(s)	Test Method	Reference	Unit	Limit	MDL
Cadmium(Cd)	EN 62321-5-2014	ICP-OES	mg/kg	100	10
Lead(Pb)	EN 62321-5-2014	ICP-OES	mg/kg	1000	10
Mercury(Hg)	EN 62321-4-2014+AMD1:2017	ICP-OES	mg/kg	1000	10
Hexavalent Chromium(CrVI) (Metal)	EN 62321-7-1-2015	UV-Vis	$\mu g/cm^2$	0.13	0.1
Hexavalent Chromium(CrVI) (Nonmetal)	EN 62321-7-2-2017	UV-Vis	mg/kg	1000	10
PBBs (Next form)	EN 62321-6-2015	GC-MS	mg/kg	1000	100
PBDEs (Next form)	EN 62321-6-2015	GC-MS	mg/kg	1000	100
Dibutyl Phthalate(DBP)	EN 62321-8-2017	GC-MS	mg/kg	1000	100
Butyl benzyl phthalate (BBP)	EN 62321-8-2017	GC-MS	mg/kg	1000	100
Di-(2-ethylhexyl) Phthalate(DEHP)	EN 62321-8-2017	GC-MS	mg/kg	1000	100
Diisobutyl phthalate (DIBP)	EN 62321-8-2017	GC-MS	mg/kg	1000	100

PBBs		PBDEs	
Monobromobiphenyl	Hexabromobiphenyl	Monobromodiphenyl ether	Hexabromodiphenyl ether
Dibromobiphenyl	Heptabromobiphenyl	Dibromodiphenyl ether	Heptabromodiphenyl ether
Tribromobiphenyl	Octabromobiphenyl	Tribromodiphenyl ether	Octabromodiphenyl ether
Tetrabromobiphenyl	Nonabromobiphenyl	Tetrabromodiphenyl ether	Nonabromodiphenyl ether
Pentabromobiphenyl	Decabromobiphenyl	Pentabromodiphenyl ether	Decabromodiphenyl ether

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Sample Description:

Material No.	Description	Material
1	PCB Substrate (Camera Motherboard)	Non-metal
2	CMOS Image Sensor Chip	Non-metal
3	Main Control / DSP IC Chip	Non-metal
4	SMD Passive Components	Non-metal
5	Camera Lens Assembly	Non-metal
6	FPC Flexible Flat Cable	Non-metal
7	Connector Housing & Terminal	Non-metal
8	Solder Alloy	Metal

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1.Test results:

XRF Scanning-RoHS Directive 2011/65/EU

Methods:IEC 62321-3-1:2013 analysis by X-ray fluorescence spectrometry(XRF).

No.	Element										Conclusion
	Pb	Cd	Hg	Cr^{6+}	PBBs	PBDEs	DBP	BBP	DEHP	DIBP	
1	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
2	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
3	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
4	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
5	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
6	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
7	BL	BL	BL	BL	BL	BL	BL	BL	BL	BL	Pass
8	BL	BL	BL	BL	--	--	--	--	--	--	Pass

Note：

a.It is the result on total Br while test item on restricted substances is PBBs/PBDEs.It is the result on total Cr while test item on restricted substances is Cr(VI).

b.The XRF screening test for RoHS elements-The reading may be different to the actual content in the sample be of non-uniformity composition.

c.Results are obtained by EDXRF for primary screening,and further chemical testing by ICP-OES(for Pb,Cd,Hg), UV-VIS for Cr(VI)and GC-MS(for PBBs/PBDEs)is recommended to be performed if the concentration exceeds the below warming value according to IEC 62321-3-1:2013.

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XRF Screening limits for different matrices:

Materials	Concentration (mg/kg)				
	Cd	Cr	Pb	Hg	Br
Polymeric	BL≤60<X<140≤OL	BL≤640<X	BL≤670<X<1330≤OL	BL≤660<X<1340≤OL	BL≤290<X
Metallic	BL≤60<X<140≤OL	BL≤640<X	BL≤670<X<1330≤OL	BL≤660<X<1340≤OL	--
Composite materials	BL≤40<X<160≤OL	BL≤440<X	BL≤470<X<1530≤OL	BL≤460<X<1540≤OL	BL≤240<X

(a)BL=Below Limit,OL=Over Limit,X=Inconclusive,LOD=Limit of Detection,--=Not regulated.

(b)The XRF screening test for RoHS elements-the reading may be different to actual content in the sample be of non-uniformity composition

(3)Chemical Method

①With reference to IEC 62321-5:2013,determination of Cadmium,Lead by ICP-OES.

②With reference to IEC62321-4:2013+AMD1:2017 CSV,determination of Mercury by ICP-OES.

③With reference to IEC 62321-7-1:2015&IEC 62321-7-2:2017,determination of Hexavalent Chromium by Colorimetric method using UV-Vis.

④With reference to IEC 62321-6:2015,determination of PBBs and PBDEs by GC-MS.

⑤With reference to IEC 62321-8:2017,determination of Phthalates by GC-MS.

(4)(a)mg/kg=0.0001%,MDL=MDL=Method Detection Limit,(c)ND=Not Detected(<MDL), --=Not Regulated

(b)Unit and MD Lin wet chemical test

Test Item	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	10	10	10	100	100	100	100

The MDL for single compound of PBBs and PBDEs is 100 mg/kg

MDL of Cr(VI)for polymer and composite sample is 10 mg/kg

MDL of Cr(VI)for metal sample is 0.10ug/cm²

(c)V=Metal sample

a.The sample is negative for Cr^{6+}if $Cr^{6+}$is N.D.(below the limit 0.10ug/cm²).The coating is considered a non Cr^{6+} based coating.

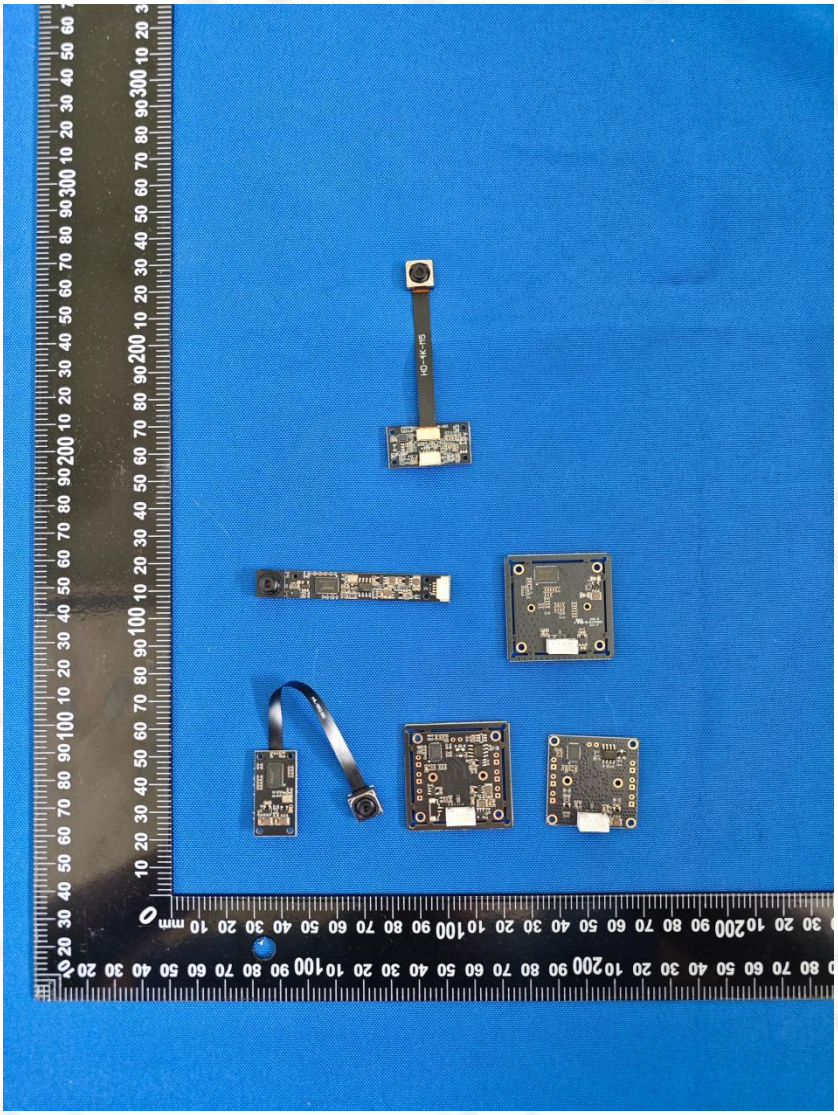
b.The sample positive for Cr^{6+}if the Cr^{6+}concentration is greater than 0.13ug/cm².The sample coating is considered to contain Cr^{6+}.

c.The result between 0.10ug/cm²and 0.13ug/cm²is considered to be inconclusive unavoidable coating variations may influence the determination.

Note:This report only applies to samples of model 3mm round red with diffused red lens.

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Sample image



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*** End of Report ***

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