

Test Report

Report No.: DGC251104017YE

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Applicant : Shenzhen INNO Technology Co., LTD**Address** : F9, Building 20, Xiangnan District 4, Zhangkeng Community, Minzhi Street, Longhua District, Shenzhen, Guangdong, China**The following sample(s) was/were submitted and identified on behalf of the client as:**

Product Name : CAM-MIPI462RAW

Manufacturer : Shenzhen INNO Technology Co., LTD

Address : F9, Building 20, Xiangnan District 4, Zhangkeng Community, Minzhi Street, Longhua District, Shenzhen, Guangdong, China

Date of Sample Received : Nov. 04, 2025

Test period : Nov. 04, 2025 - Nov. 05, 2025

Test requested

In accordance with RoHS Directive 2011/65/EU and amendment 2015/863/EU, to determine Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr (VI)), PBBs, PBDEs, Di (2-ethyl hexyl)-phthalate (DEHP), Dibutyl phthalate (DBP), Butylbenzyl phthalate (BBP), Diisobutyl phthalate (DIBP) content on submitted samples.

Conclusion

Pass

Test method : Please refer to next page.**Test result** : Please refer to next page.**Approved by:**
Richard KeRichard Ke
(Signed for and on behalf)

Date:

Report Seal

Nov. 05, 2025

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Test method:**1. For the Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr (VI)), PBBs, PBDEs:**

With reference to IEC 62321 Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products, XRF scanning first test, then using chemical test method to confirm.

Testing Item		Test Method	Measuring Instrument	MDL
Screening test		IEC 62321-3-1: 2013 scanning	XRF	--
Wet Chemical test	Lead (Pb)	IEC 62321-5: 2013	ICP-OES	2mg/kg
	Cadmium (Cd)	IEC 62321-5: 2013	ICP-OES	2mg/kg
	Mercury (Hg)	IEC 62321-4: 2013+AMD1:2017	ICP-OES	2mg/kg
	Chromium (Cr (VI))▼	IEC 62321-7-2:2017	UV-Vis	8mg/kg
		IEC 62321-7-1: 2015		0.10µg/cm ²
	PBBs, PBDEs	IEC 62321-6: 2015	GC-MS	5 mg/kg

2. For the DEHP, DBP, BBP and DIBP:

Testing Item	Pretreatment Method	Measuring Instrument	MDL
Di (2-ethyl hexyl)-phthalate (DEHP)			30mg/kg
Butylbenzyl phthalate (BBP)	IEC 62321-8: 2017		30mg/kg
Dibutyl phthalate (DBP)		GC-MS	30mg/kg
Diisobutyl phthalate (DIBP)			30mg/kg

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1. Description of the test subject:

Sample No.	Location	Sample Description	备注 Note
1-1	CAM-MIPI462RAW	Grey black plastic base	Same #7
1-2	CAM-MIPI462RAW	Black metal screw	Same #8
1-3	CAM-MIPI462RAW	Chip IC	Same #9
1-4	CAM-MIPI462RAW	SMD transistor	Same #10
1-5	CAM-MIPI462RAW	Chip IC	Same #11
1-6	CAM-MIPI462RAW	FPC socket black plastic buckle	Same #12
1-7	CAM-MIPI462RAW	FPC socket, pale plastic socket	Same #13
1-8	CAM-MIPI462RAW	FPC socket silver metal pin	Same #14
1-9	CAM-MIPI462RAW	FPC connector silver metal frame	Same #15
1-10	CAM-MIPI462RAW	Silver crystal oscillator	Same #16
1-11	CAM-MIPI462RAW	Chip Capacitor	Same #17
1-12	CAM-MIPI462RAW	Chip Resistor	Same #18
1-13	CAM-MIPI462RAW	Green PCB board	Same #19
1-14	CAM-MIPI462RAW	Green PCB board soldering	Same #20

Remark:

- (1) "Same" = It means that the sample and the actual tested sample are of the same material and have not been tested. According to the client's declarations, see the above table for the list of samples (parts) of the same material;
- (2) "#"= means that The test results are references to the test report DGC251024036YE01.

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2. Test results (Unit: mg/kg):

No.	Test Method	Heavy Metals and Flame Retardants					Phthalates				Conclusion
		Cd	Pb	Hg	Cr (Cr(VI))	Br (PBBs, PBDEs)	DEHP	BBP	DBP	DIBP	
1-1	Screening	BL	BL	BL	BL	BL	---	---	---	---	Pass
	Wet Chem.	--	--	--	--	--	N.D.	N.D.	N.D.	N.D.	
1-2	Screening	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.	Pass
1-3	Screening	BL	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	Pass
1-4	Screening	BL	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	Pass
1-5	Screening	BL	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	Pass
1-6	Screening	BL	BL	BL	BL	BL	---	---	---	---	Pass
	Wet Chem.	--	--	--	--	--	N.D.	N.D.	N.D.	N.D.	
1-7	Screening	BL	BL	BL	BL	BL	---	---	---	---	Pass
	Wet Chem.	--	--	--	--	--	N.D.	N.D.	N.D.	N.D.	
1-8	Screening	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.	Pass
1-9	Screening	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.	Pass
1-10	Screening	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.	Pass
1-11	Screening	BL	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	Pass
1-12	Screening	BL	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	Pass
1-13	Screening	BL	BL	BL	BL	IN	---	---	---	---	Pass
	Wet Chem.	--	--	--	--	N.D.	N.D.	N.D.	N.D.	N.D.	
1-14	Screening	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.	Pass

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Note:

- (1) (a) It is the result on total Br while test PBBs, PBDEs by XRF, It is the result on total Cr while test Cr (VI)I by XRF.
 (b) Results are obtained by XRF for primary screening and further chemical testing by ICP-OES (for Pb, Cd and 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 IEC 62321-3-1:2013 (unit: mg/kg).

Element	Polymer	Metal	Composite Materials
Cadmium (Cd)	BL≤70<X<130≤OL	BL≤70<X<130≤OL	LOD<X<150≤OL
Lead (Pb)	BL≤700<X<1300≤OL	BL≤700<X<1300≤OL	BL≤500<X<1500≤OL
Mercury (Hg)	BL≤700<X<1300≤OL	BL≤700<X<1300≤OL	BL≤500<X<1500≤OL
Chromium (Cr)	BL≤700<X	BL≤700<X	BL≤500<X
Bromine (Br)	BL≤300<X	--	BL≤250<X

- (c) The XRF screening test for RoHS elements –The reading may be different to the actual content in the sample be of non-uniformity composition.
- (d) The Screening results of Phthalates are for primary screening, and further chemical testing by GC-MS are recommended to be performed if the concentration exceeds the warning value. Where n= number of mixed tests.

Compound	Polymer
DBP	BL ≤ 1000/n< X
BBP	BL ≤ 1000/n< X
DEHP	BL ≤ 1000/n< X
DIBP	BL ≤ 1000/n< X

(e) OL=Over Limit, BL=Below Limit, IN=Inconclusive, LOD= Limit of Detection;

(2) mg/kg=ppm=0.0001%, N.D.=Not detected(<MDL), MDL=Method Detection Limit,
 “--”=Not conducted, “--”=Not regulated, “N.A.”=Not applicable.

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(3) "▼" =Metal sample

a. The sample is positive for Cr (VI) if the Cr (VI) concentration is greater than 0.13 µg/cm².

The sample coating is considered to contain Cr (VI) ;

b. The sample is negative for Cr (VI) if Cr (VI) concentration is less than 0.10 µg/cm².

The coating is considered a non-Cr (VI) based coating ;

c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive

- unavoidable coating variations may influence the determination ;

Information on storage conditions and production date of the tested sample is unavailable and thus Cr (VI) results represent status of the sample at the time of testing.

(4) RoHS Requirement

Restricted substances	Limits
Lead (Pb)	0.1% (1000 ppm)
Cadmium (Cd)	0.01% (100 ppm)
Chromium(VI) (Cr (VI))	0.1% (1000 ppm)
Mercury (Hg)	0.1% (1000 ppm)
Polybrominated biphenyls (PBBs)	0.1% (1000 ppm)
Polybrominated diphenyl ethers (PBDEs)	0.1% (1000 ppm)
Di (2-ethyl hexyl)-phthalate (DEHP)	0.1% (1000 ppm)
Butylbenzyl phthalate (BBP)	0.1% (1000 ppm)
Dibutyl phthalate (DBP)	0.1% (1000 ppm)
Diisobutyl phthalate (DIBP)	0.1% (1000 ppm)

The above limits are reference with RoHS Directive 2011/65/EU and amendment 2015/863/EU.

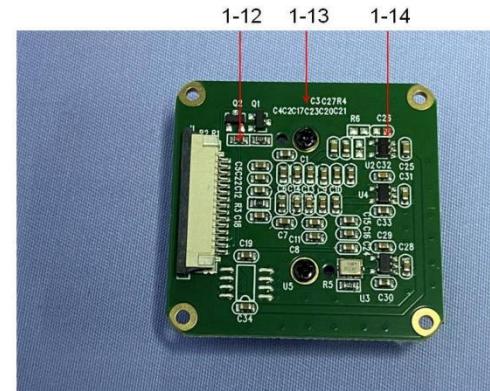
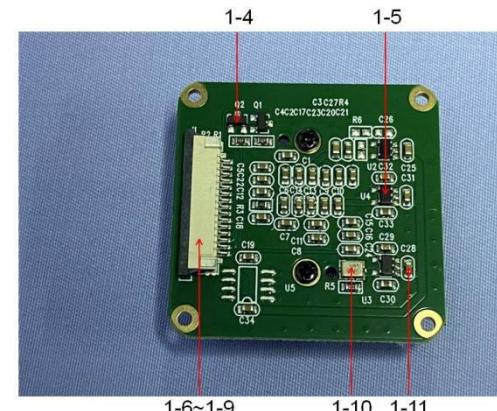
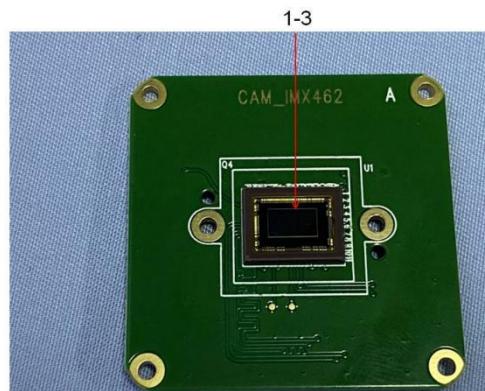
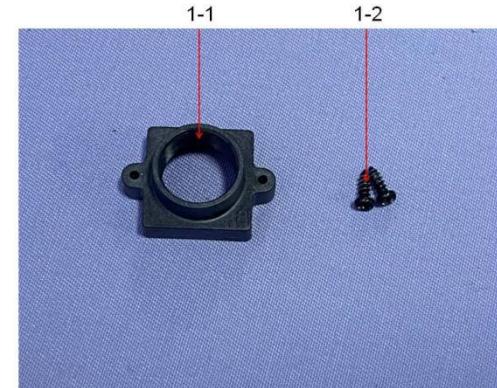
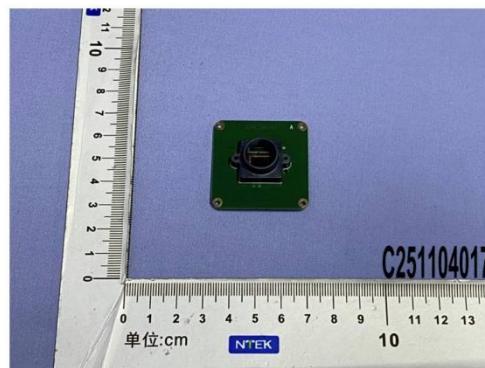
(5) Unless otherwise specified, refer to ILAC-G8:09/2019 and use the binary decision rule of simple acceptance (W=0) for conformity assessment.

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Photographs of Sample:



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声明: Statement:

1. 检测报告无批准人签字、“检测专用章”或“报告章”无效;
1. This report is considered invalid without approved signature, Detection special seal or Report seal
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2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which NTEK hasn't verified;
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3. The result(s) shown in this report refer(s) only to the sample(s) tested;
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*** End of Report***