



# Test Report

**Report No.:** PTC25032012702C-EN01

**Issue Date:** Apr. 01, 2025

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**Applicant:** HANGZHOU YINFU TECHNOLOGY CO.,LTD

**Address:** Room 1006, Building 7, Xingyun Kunpeng Center, No. 112, Jinjiadu Road, Liangzhu Street, Yuhang District, Hangzhou City, Zhejiang , China

The following merchandise was (were) submitted and identified by client as:

**Sample Name:** Network cameras

**Test Sample Model:** IPC-BF2510C-S2-L

**Other Sample Model:** Please refer to next page

**Manufacturer:** HANGZHOU YINFU TECHNOLOGY CO.,LTD

**Address:** Room 1006, Building 7, Xingyun Kunpeng Center, No. 112, Jinjiadu Road, Liangzhu Street, Yuhang District, Hangzhou City, Zhejiang , China

**Sample Received Date:** Mar. 25, 2025

**Completed Date:** Apr. 01, 2025

**Test Requested:** As specified by client, with reference to RoHS Directive 2011/65/EU and its subsequent amendments regulation EU No.2015/863.(Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium( $\text{Cr}^{6+}$ ), PBBs and PBDEs, Phthalates (DBP, BBP,DEHP,DIBP))

**Conclusion(s):** According to the test results of below test parameters, the tested materials of submitted samples complied with the requirements for RoHS Directive 2011/65/EU and its subsequent amendments regulation EU No.2015/863.

**Test Result(s) and Test Method(s):**Please refer to next page(s).

Prepared by: Anne

Checked by:Crystal

Approved by: Miya

Anne

Crystal

Miya



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## Other Sample Model:

IPC-BF22XXX-XXX, IPC-BF22XXX-XXX-L, IPC-BF22XXX-XXX-PV, IPC-BF23XXX-XXX,  
IPC-BF23XXX-XXX-L, IPC-BF23XXX-XXX-PV, IPC-BF24XXX-XXX, IPC-BF24XXX-XXX-L,  
IPC-BF24XXX-XXX-PV, IPC-BF25XXX-XXX, IPC-BF25XXX-XXX-L, IPC-BF25XXX-XXX-PV,  
IPC-BF26XXX-XXX, IPC-BF26XXX-XXX-L, IPC-BF26XXX-XXX-PV, IPC-DF22XXX-XXX,  
IPC-DF22XXX-XXX-L, IPC-DF22XXX-XXX-PV, IPC-DF23XXX-XXX, IPC-DF23XXX-XXX-L,  
IPC-DF23XXX-XXX-PV, IPC-DF24XXX-XXX, IPC-DF24XXX-XXX-L, IPC-DF24XXX-XXX-PV,  
IPC-DF25XXX-XXX, IPC-DF25XXX-XXX-L, IPC-DF25XXX-XXX-PV, IPC-DF26XXX-XXX,  
IPC-DF26XXX-XXX-L, IPC-DF26XXX-XXX-PV, IPC-EF22XXX-XXX, IPC-EF22XXX-XXX-L,  
IPC-EF22XXX-XXX-PV, IPC-EF23XXX-XXX, IPC-EF23XXX-XXX-L, IPC-EF23XXX-XXX-PV,  
IPC-EF24XXX-XXX, IPC-EF24XXX-XXX-L, IPC-EF24XXX-XXX-PV, IPC-EF25XXX-XXX,  
IPC-EF25XXX-XXX-L, IPC-EF25XXX-XXX-PV, IPC-EF26XXX-XXX, IPC-EF26XXX-XXX-L,  
IPC-EF26XXX-XXX-PV, IPC-BF22XXX-XXX-L-B, IPC-BF22XXX-XXX-PV-B, IPC-BF23XXX-XXX-L-B,  
IPC-BF23XXX-XXX-PV-B, IPC-BF24XXX-XXX-L-B, IPC-BF24XXX-XXX-PV-B, IPC-BF25XXX-XXX-L-B,  
IPC-BF25XXX-XXX-PV-B, IPC-BF26XXX-XXX-L-B, IPC-BF26XXX-XXX-PV-B, IPC-DF22XXX-XXX-L-B,  
IPC-DF22XXX-XXX-PV-B, IPC-DF23XXX-XXX-L-B, IPC-DF23XXX-XXX-PV-B, IPC-DF24XXX-XXX-L-B,  
IPC-DF24XXX-XXX-PV-B, IPC-DF25XXX-XXX-L-B, IPC-DF25XXX-XXX-PV-B, IPC-DF26XXX-XXX-L-B,  
IPC-DF26XXX-XXX-PV-B, IPC-EF22XXX-XXX-L-B, IPC-EF22XXX-XXX-PV-B, IPC-EF23XXX-XXX-L-B,  
IPC-EF23XXX-XXX-PV-B, IPC-EF24XXX-XXX-L-B, IPC-EF24XXX-XXX-PV-B, IPC-EF25XXX-XXX-L-B,  
IPC-EF25XXX-XXX-PV-B, IPC-EF26XXX-XXX-L-B, IPC-EF26XXX-XXX-PV-B

**Test Result(s) and Test Method(s):**Please refer to next page(s).

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## Test Result(s):

### 1.1) RoHS Directive 2011/65/EU -(Lead (Pb)/Cadmium(Cd)/Mercury(Hg)/Hexavalent Chromium(Cr<sup>6+</sup>)/PBBs/PBDEs)

Test Method: IEC 62321-3-1: 2013, IEC 62321-5: 2013, analyzed by EDXRF & ICP-OES.

No.	Materials Description	EDXRF Result(s) (mg/kg)					Chemical Result (mg/kg)	Conclusion
		Pb	Cd	Hg	Cr	Br		
1	White plastic (casing)	BL	BL	BL	BL	BL	--	PASS
2	White silicone (gasket)	BL	BL	BL	BL	BL	--	PASS
3	Green plastic (rivets)	BL	BL	BL	BL	BL	--	PASS
4	Silver metal (screws)	BL	BL	BL	BL	--	--	PASS
5	Black foam with adhesive (gasket)	BL	BL	BL	BL	BL	--	PASS
6	Silver metal with white coating (housing)	BL	BL	BL	BL	--	--	PASS
7	White plastic (bracket)	BL	BL	BL	BL	BL	--	PASS
8	Silver metal (shaft)	BL	BL	BL	BL	--	--	PASS
9	White soft plastic (wire sheath)	BL	BL	BL	BL	BL	--	PASS
10	Silver metal (wire core)	BL	BL	BL	BL	--	--	PASS
11	Black plastic (lid)	BL	BL	BL	BL	BL	--	PASS
12	Silver metal with black coating (housing)	BL	BL	BL	BL	--	--	PASS
13	Clear glass (display)	BL	BL	BL	BL	BL	--	PASS
14	Silver metal with black coating (screws)	BL	BL	BL	BL	--	--	PASS
15	Silver metal (screws)	BL	BL	BL	BL	--	--	PASS
16	Silver metal (hex screw)	BL	BL	BL	BL	--	--	PASS
17 <sup>E</sup>	Copper metal (hexagonal screws)	IN	BL	BL	BL	--	Pb:28141	PASS
18	Silver metal (cap)	BL	BL	BL	BL	--	--	PASS
19	Silver metal with black coating (PCB "XS-HZZN-4A-30-IRW V2.0")	BL	BL	BL	BL	--	--	PASS
20	Transparent plastic (light	BL	BL	BL	BL	BL	--	PASS

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No.	Materials Description	EDXRF Result(s) (mg/kg)					Chemical Result (mg/kg)	Conclusion
		Pb	Cd	Hg	Cr	Br		
	guide plate, PCB "XS-HZZN-4A-30-IRW V2.0")							

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. The result are obtained by EDXRF for primary screening, if the result exceeds the below limit (BL), and further chemical testing.
  3. For EDXRF 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.
  4. "E"= This material is tin-lead solder or metal alloy proved by client, lead in tin-lead solder or copper alloy is exempted on the requirements of RoHS directive (EU Directive 2011/65/EU).

## Screening limits in mg/kg for regulated elements in various matrices

Elements	Polymer	Metal	Composite Materials
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$
Br	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$

BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection

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## Chemical Testing - Detection Limit & 2011/65/EU Limit:

Name of Chemicals	Method Detection Limit (mg/kg)	2011/65/EU Limit (mg/kg)
Lead (Pb)	5	1000
Cadmium (Cd)	5	100
Mercury (Hg)	5	1000
Chromium VI (Cr VI)	Non-metal: 5 Metal: Negative	Non-metal: 1000 Metal: Negative
Polybromobiphenyls (PBBs) -Bromobiphenyl (MonoBB) -Dibromobiphenyl (DiBB) -Tribromobiphenyl (TriBB) -Tetrabromobiphenyl (TetraBB) -Pentabromobiphenyl (PentaBB) -Hexabromobiphenyl (HexaBB) -Heptabromobiphenyl (HeptaBB) -Octabromobiphenyl (OctaBB) -Nonabromobiphenyl (NonaBB) -Decabromobiphenyl (DecaBB)	Each 5	Sum: 1 000
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)	Each 5	Sum: 1 000

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## Test Result(s):

### 1.2) RoHS Directive 2011/65/EU and its subsequent amendments regulation EU No.2015/863 - (Phthalates DIBP,DBP, BBP, DEHP)

Method: IEC 62321-8: 2017, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Substances	DBP	BBP	DEHP	DIBP	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
Limit(s) (mg/kg)	1000	1000	1000	1000	
MDL (mg/kg)	50	50	50	50	
Material No.	Result (mg/kg)				
1+2+3	N.D.	N.D.	N.D.	N.D.	PASS
5+7+9	N.D.	N.D.	N.D.	N.D.	PASS
13+11+20	N.D.	N.D.	N.D.	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (< MDL).
  3. MDL = Method Detection Limit.

Test Material List	
The following materials apply only to the samples submitted for phthalates testing.	
Material No.	Description (Location)
1	White plastic (casing)
2	White silicone (gasket)
3	Green plastic (rivets)
5	Black foam with adhesive (gasket)
7	White plastic (bracket)
9	White soft plastic (wire sheath)
11	Black plastic (lid)
13	Clear glass (display)
20	Transparent plastic (light guide plate, PCB "XS-HZZN-4A-30-IRW V2.0")

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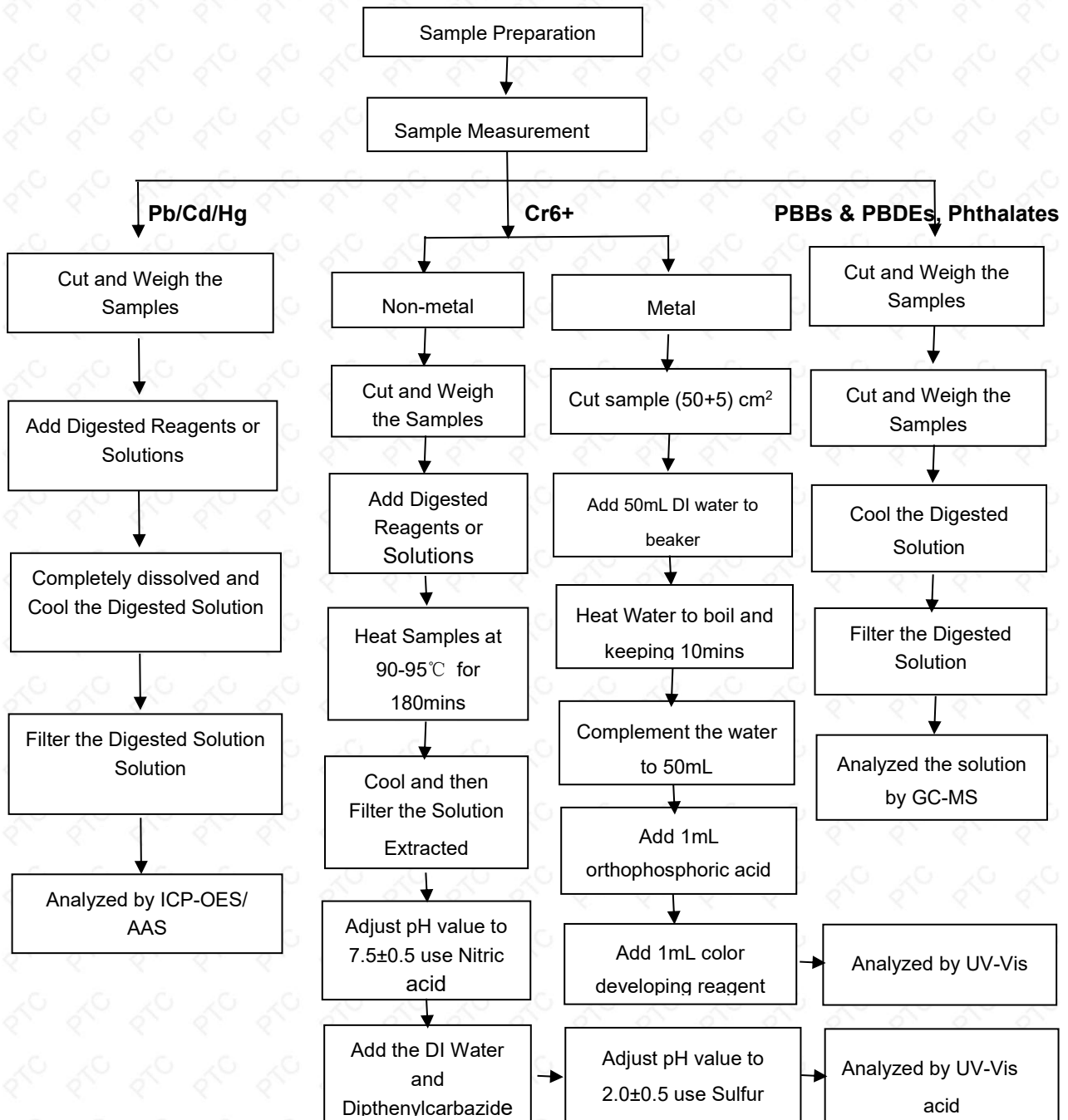
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## Pb/Cd/Hg/Cr6+/PBBs/PBDEs, Phthalates Testing Flow Chart



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Photo(s) of Sample:



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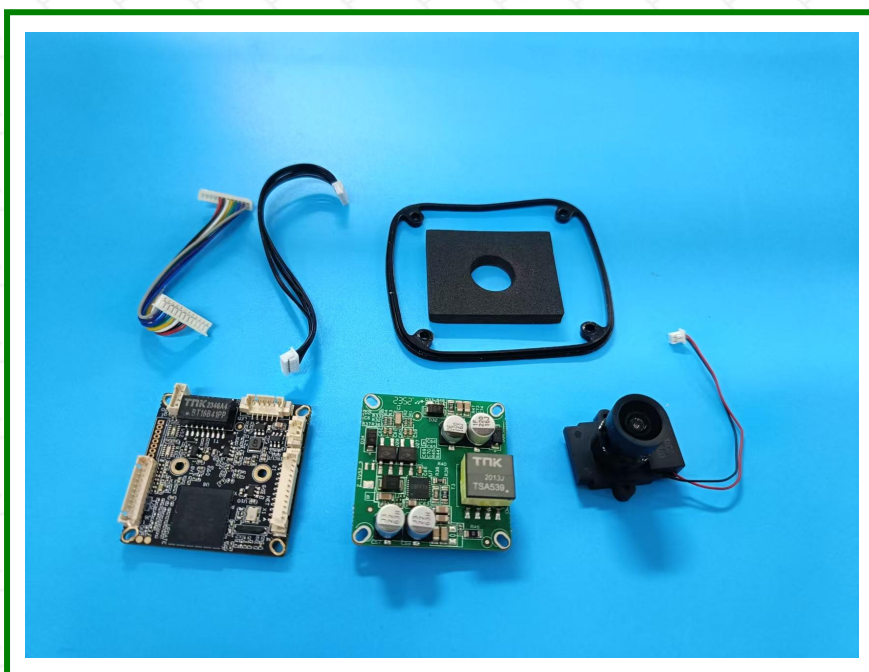
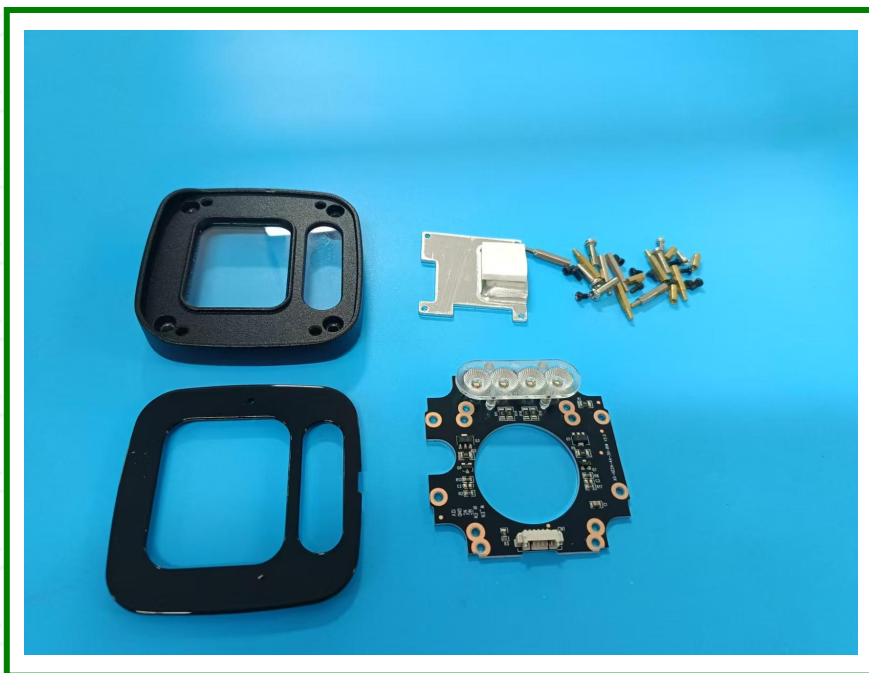


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