

## Test Report

Number: GZHH00402041S1

Applicant: UNI-TREND TECHNOLOGY (CHINA) CO.,LTD  
NO.6,GONG YE BEI 1ST ROAD,SONGSHAN  
LAKE NATIONAL HIGH-TECH INDUSTRIAL  
DEVELOPMENT ZONE,DONGGUAN CITY,  
GUANGDONG PROVINCE,CHINA

Date: Dec 10, 2021

Attn: GUSSIE XIANG

*This is to supersede Report No.  
GZHH00402041 dated May 24,  
2021*

### Sample Description:

Two (2) pieces of submitted sample said to be :

Item Name : **Thermal imager for smart phone**  
Item No. : **UTi120Mobile**  
Manufacturer : Uni-Trend Technology (China) Co.,Ltd  
Country of Origin : China  
Date Sample Received : Apr 08, 2021 & May 18, 2021 & Nov 26, 2021  
Testing Period : Apr 08, 2021 to Dec 07, 2021



### Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

To be continued



**Test Report**

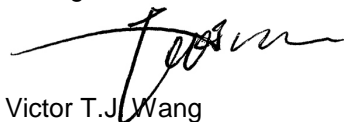
Number: GZHH00402041S1

Conclusion:

<u>Tested Sample</u>	<u>Standard</u>	<u>Result</u>
Tested components of submitted sample	Restriction of the use of certain hazardous substance in electrical and electronic equipment (RoHS Directive 2011/65/EU and amendment Commission Delegated Directive (EU) 2015/863)	Pass
	Restricted Substances Content Requirement in Regulation 3(1) of The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (S.I. 2012 No. 3032) as amended	Pass

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Authorized by:  
For Intertek Testing Services Shenzhen Ltd.  
Guangzhou Branch, Hardlines



Victor T.J. Wang  
Assistant General Manager



Page 2 of 32

**Intertek Testing Services Shenzhen Limited, Guangzhou Branch**

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

1 RoHS Chemical Test

Screening Test by XRF Spectroscopy

Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr) and Bromine (Br) content were measured with reference to IEC 62321-3-1 Edition 1.0:2013 by XRF spectroscopy and chemical confirmation test for RoHS restricted substances.

(A) RESULTS:

Screened Components	XRF Results		Chemical Confirmation Result
(1)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(2)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(3)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(4)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(5)	Cd	ND	Cr <sup>6+</sup> : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(6)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(7)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(8)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(9)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(10)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(11)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(12)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(13)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(14)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(15)	Cd	ND	Cr <sup>6+</sup> : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(16)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(17)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(18)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(19)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(20)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(21)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(22)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(23)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(24)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(25)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(26)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(27)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(28)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(29)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(30)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(31)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(32)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	Detected	
	Br	NT	
(33)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(34a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(34b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(35)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(36)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(37)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(38)	Cd	ND	Cr <sup>6+</sup> : ND
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	ND	
(39)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(40)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(41)	Cd	ND	Cr <sup>6+</sup> : ND
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	ND	
(42)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(43)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(44)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(45)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(46)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(47)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(48)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(49)	Cd	ND	Cr <sup>6+</sup> : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(50)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(51a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(51b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

(B) Phthalate Screening Test

Non-toys:

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(2)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(3)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(6)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(8)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(9)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(12)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(14)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(17)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(18)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(19)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(21)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(25)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(26)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(34a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(35)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(38)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(40)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(41)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(42)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(43)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(44)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(47)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(48)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(50)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(51a)	DEHP	P	NT
	BBP	P	
	DBP	P	

DBP =Dibutyl phthalate  
 DEHP = Di-(2-ethyl hexyl) phthalate  
 BBP = Benzyl butyl phthalate  
 DIBP = Di-(iso-butyl) phthalate

Detected = Below the lower screening limit of table (C) and pass

ND = Not detected

NT = Not tested

P = Pass

Negative = A negative test result indicated the concentration of Cr(VI) is less than threshold of 0.10 µg/cm<sup>2</sup> for boiling-water-extraction procedures by UV-VIS Spectrophotometer analysis. The coating is considered a non-Cr(VI) based coating.

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Tests Conducted

(C) Screening Limits

(C1) XRF Screening limits in mg/kg for Regulated Elements in Various Matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 150 \leq F$
Pb	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Hg	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Cr	$P \leq 700 < X$	$P \leq 700 < X$	$P \leq 500 < X$
Br	$P \leq 300 < X$	Not applicable	$P \leq 250 < X$

(C2) Preliminary Screening limits in mg/kg for phthalates test.

Phthalates	Polymer Materials
Dibutyl phthalate (DBP)	$P \leq 600 < X$
Di-(2-ethyl hexyl) phthalate (DEHP)	$P \leq 600 < X$
Benzyl butyl phthalate (BBP)	$P \leq 600 < X$
Di-(iso-butyl) phthalate (DIBP)	$P \leq 600 < X$

P = Pass

X = Inconclusive result

**F = Fail**

mg/kg = milligram per kilogram = ppm

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

(D) Estimated Detection Limits in mg/kg for Regulated Elements in Various Matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	50	70	70
Pb	100	200	200
Hg	100	200	200
Cr	100	200	200
Br	200	Not applicable	200

**Disclaimers:**

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF Screening and Chemical Confirmation Test Report is sufficient for its/his/her purposes.

The results shown in this XRF Screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis is required to obtain quantitative data.

(E) Chemical Test Methods:

Testing Item	Testing Method	Reporting Limit
Polybrominated Biphenyls (PBBs) & Polybrominated Diphenyl Ethers (PBDEs)	With reference to IEC 62321-6 Edition 1.0:2015, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary	5 mg/kg
Chromium (VI) (Cr <sup>6+</sup> ) Content	With reference to IEC 62321-7-1 Edition 1.0:2015, by boiling water extraction and determined by UV-VIS Spectrophotometer	0.10 µg/cm <sup>2</sup>
Chromium (VI)(Cr <sup>6+</sup> ) Content	With reference to IEC 62321-7-2 Edition 1.0:2017, Hexavalent chromium – Determination of hexavalent chromium (Cr(VI) in polymers and electronics by the colorimetric method	10 mg/kg
Dibutyl phthalate (DBP) & Di-(2-ethyl hexyl) phthalate (DEHP) & Benzyl butyl phthalate (BBP) & Di-(iso-butyl) phthalate (DIBP)	With reference to IEC 62321-8 Edition 1.0:2017, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis	50 mg/kg

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## Test Report

Number: GZHH00402041S1

### Tests Conducted

(F) RoHS Requirement:

Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr <sup>6+</sup> )	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)
Dibutyl phthalate (DBP)	0.1% (1000 mg/kg)
Di-(2-ethyl hexyl) phthalate (DEHP)	0.1% (1000 mg/kg)
Benzyl butyl phthalate (BBP)	0.1% (1000 mg/kg)
Di-(iso-butyl) phthalate (DIBP)	0.1% (1000 mg/kg)

The above limits were quoted from Directive 2011/65/EU and amendment Commission Delegated Directive (EU) 2015/863 for homogeneous material.

Tested Components: See component list in the last section of this report

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

2 RoHS Chemical Test

Screening Test by XRF Spectroscopy

Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr) and Bromine (Br) content were measured with reference to IEC 62321-3-1 Edition 1.0:2013 by XRF spectroscopy and chemical confirmation test for RoHS restricted substances.

(A) RESULTS:

Screened Components	XRF Results		Chemical Confirmation Result
(1)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(2)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(3)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(4)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(5)	Cd	ND	Cr <sup>6+</sup> : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(6)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(7)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(8)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(9)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(10)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(11)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(12)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(13)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(14)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(15)	Cd	ND	Cr <sup>6+</sup> : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(16)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(17)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(18)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(19)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(20)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(21)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(22)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(23)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(24)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(25)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(26)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(27)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(28)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(29)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(30)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(31)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(32)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	Detected	
	Br	NT	
(33)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(34a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(34b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(35)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(36)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(37)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(38)	Cd	ND	Cr <sup>6+</sup> : ND
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	ND	
(39)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

\*\*\*\*\*



**Test Report**

Number: GZHH00402041S1

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(40)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(41)	Cd	ND	Cr <sup>6+</sup> : ND
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	ND	
(42)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(43)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(44)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(45)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
(46)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
(47)	Cd	ND	PBBs : ND PBDEs : ND
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
(48)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(49)	Cd	ND	Cr <sup>6+</sup> : Negative
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
(50)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(51a)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
(51b)	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

(B) Phthalate Screening Test

Non-toys:

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(2)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(3)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(6)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(8)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(9)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(12)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(14)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(17)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(18)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(19)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(21)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(25)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(26)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(34a)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(35)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(38)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(40)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

Screened Components	Items	Screened Results(phthalates)	Chemical Confirmation Result
(41)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(42)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(43)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(44)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(47)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(48)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(50)	DEHP	P	NT
	BBP	P	
	DBP	P	
	DIBP	P	
(51a)	DEHP	P	NT
	BBP	P	
	DBP	P	

Detected = Below the lower screening limit of table (C) and pass

ND = Not detected

NT = Not tested

P = Pass

Negative = A negative test result indicated the concentration of Cr(VI) is less than threshold of 0.10 µg/cm<sup>2</sup> for boiling-water-extraction procedures by UV-VIS Spectrophotometer analysis. The coating is considered a non-Cr(VI) based coating.

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

(C) Screening Limits

(C1) XRF Screening limits in mg/kg for Regulated Elements in Various Matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 150 \leq F$
Pb	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Hg	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Cr	$P \leq 700 < X$	$P \leq 700 < X$	$P \leq 500 < X$
Br	$P \leq 300 < X$	Not applicable	$P \leq 250 < X$

(C2) Preliminary Screening limits in mg/kg for phthalates test.

Phthalates	Polymer Materials
Dibutyl phthalate (DBP)	$P \leq 600 < X$
Di-(2-ethyl hexyl) phthalate (DEHP)	$P \leq 600 < X$
Benzyl butyl phthalate (BBP)	$P \leq 600 < X$
Di-(iso-butyl) phthalate (DIBP)	$P \leq 600 < X$

P = Pass

X = Inconclusive result

**F = Fail**

mg/kg = milligram per kilogram = ppm

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

(D) Estimated Detection Limits in mg/kg for Regulated Elements in Various Matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	50	70	70
Pb	100	200	200
Hg	100	200	200
Cr	100	200	200
Br	200	Not applicable	200

**Disclaimers:**

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF Screening and Chemical Confirmation Test Report is sufficient for its/his/her purposes.

The results shown in this XRF Screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis is required to obtain quantitative data.

(E) Chemical Test Methods:

Testing Item	Testing Method	Reporting Limit
Polybrominated Biphenyls (PBBs) & Polybrominated Diphenyl Ethers (PBDEs)	With reference to IEC 62321-6 Edition 1.0:2015, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary	5 mg/kg
Chromium (VI) (Cr <sup>6+</sup> ) Content	With reference to IEC 62321-7-1 Edition 1.0:2015, by boiling water extraction and determined by UV-VIS Spectrophotometer	0.10 µg/cm <sup>2</sup>
Chromium (VI)(Cr <sup>6+</sup> ) Content	With reference to IEC 62321-7-2 Edition 1.0:2017, Hexavalent chromium – Determination of hexavalent chromium (Cr(VI) in polymers and electronics by the colorimetric method	10 mg/kg
Dibutyl phthalate (DBP) & Di-(2-ethyl hexyl) phthalate (DEHP) & Benzyl butyl phthalate (BBP) & Di-(iso-butyl) phthalate (DIBP)	With reference to IEC 62321-8 Edition 1.0:2017, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis	50 mg/kg

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**Test Report**

Number: GZHH00402041S1

Tests Conducted

(F) RoHS Requirement:

Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr <sup>6+</sup> )	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)
Dibutyl phthalate (DBP)	0.1% (1000 mg/kg)
Di-(2-ethyl hexyl) phthalate (DEHP)	0.1% (1000 mg/kg)
Benzyl butyl phthalate (BBP)	0.1% (1000 mg/kg)
Di-(iso-butyl) phthalate (DIBP)	0.1% (1000 mg/kg)

The above limits were quoted from The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (S.I. 2012 No. 3032) as amended, Regulation 3(1) on restricted substances content in homogeneous materials.

Tested Components: See component list in the last section of this report

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Component list :

- (1) black treated metal
- (2) blue soft plastic with glue
- (3) transparent plastic with glue and inaccessible coatings
- (4) silver color metal (screw)
- (5) silver color metal
- (6) brown/black FPC
- (7) black treated metal sheet
- (8) black plastic
- (9) black foam with glue
- (10) silver color metal
- (11) copper color metal wire
- (12) black woven with glue
- (13) solder
- (14) conformal coating with green solder mask & copper color metal pad & fibreboard (SMD PCB)
- (15) silver color metal
- (16) silver color metal (pin)
- (17) black plastic
- (18) beige plastic
- (19) dark grey plastic
- (20) silver color metal (pin)

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## Test Report

Number: GZHH00402041S1

### Tests Conducted

- (21) black plastic
- (22) grey-brown ceramic with silver color metal (SMD capacitor)
- (23) dark grey ceramic with silver color metal (SMD inductor)
- (24) white ceramic with black material & white printing & silver color metal (SMD resistor)
- (25) black body with brown printing & silver color metal (SMD diode)
- (26) black body with beige printing & silver color metal (SMD triode)
- (27) dark grey ceramic with silver color metal (SMD inductor)
- (28) black treated metal
- (29) transparent black glass
- (30) black treated metal
- (31) black treated metal
- (32) black treated metal
- (33) dull brown ceramic with silver color metal (SMD capacitor)
- (34) IC
  - a) black body
  - b) silver color metal (pin)
- (35) dark grey plastic
- (36) light gold color metal (pin)
- (37) dull silver color metal
- (38) grey plastic
- (39) transparent glass
- (40) black plastic
- (41) dark grey magnet
- (42) black body with silver color metal
- (43) black body with silver color metal
- (44) black body with silver color metal
- (45) solder
- (46) grey brown ceramic with silver color metal (SMD capacitor)
- (47) conformal coating with green solder mask & copper color metal pad & fibreboard (SMD PCB)
- (48) silver color metal & quartz & brown material & silver color metal (SMD crystal)
- (49) Silver color metal.
- (50) White plastic.
- (51) IC
  - a)Black body.
  - b)Silver color metal.

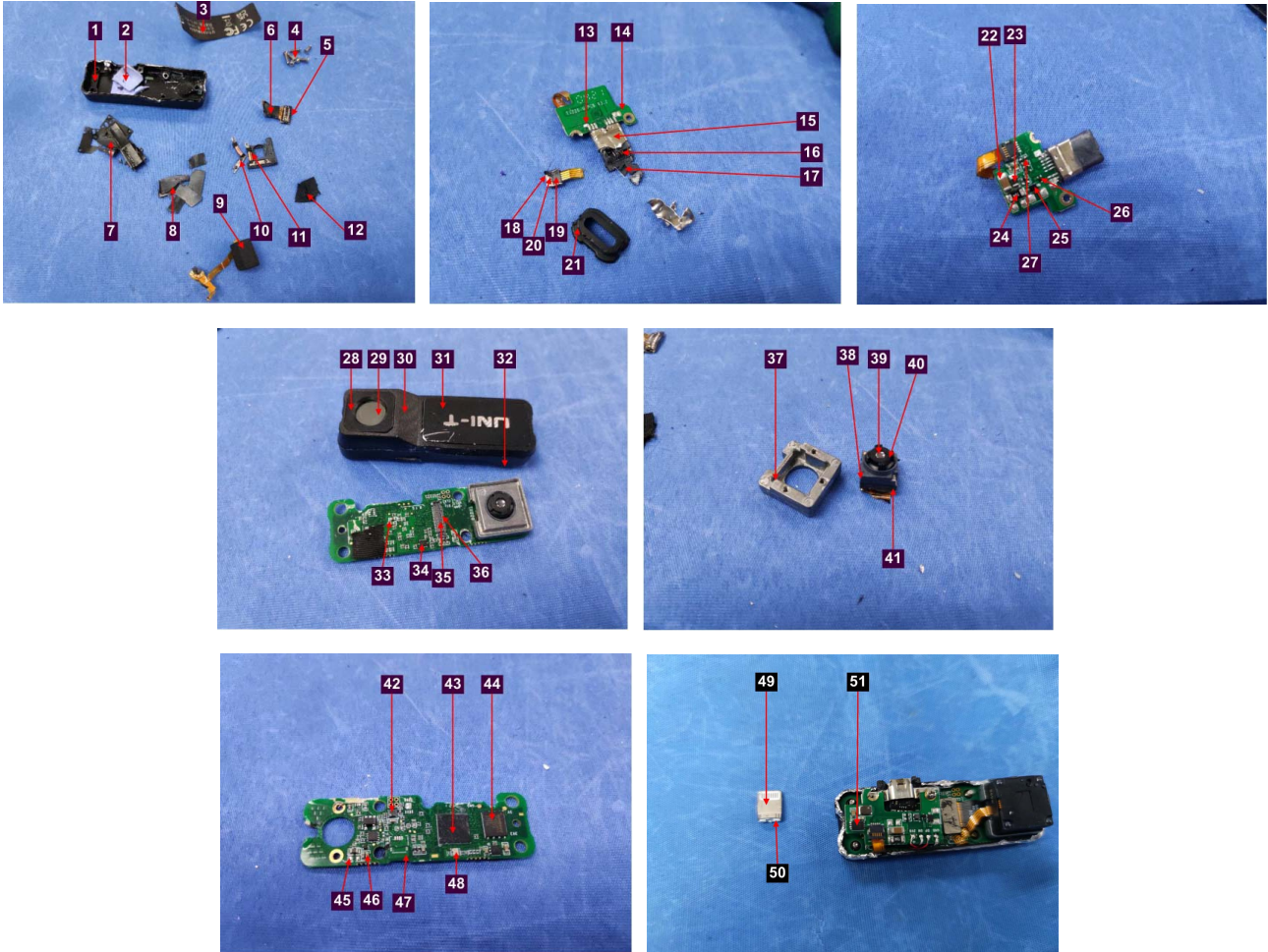
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## Test Report

Number: GZHH00402041S1

### Tests Conducted



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End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band  $w = U$ ) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

The sample(s) and sample information hereto are provided by the client who shall be solely responsible for the authenticity and integrity thereof. The results shown in this report relate only to the sample(s) tested. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. This report shall not be reproduced unless with prior written approval from Intertek Testing Services Shenzhen Limited, Guangzhou Branch. The testing data and result issued by this report are just for scientific research, teaching, internal quality control, product research and development etc. on reference only in the territory of the People's Republic of China.





To: UNI-TREND TECHNOLOGY (CHINA) CO.,LTD

Ref: FC-210

Attention: GUSSIE XIANG

Date: Dec 10, 2021

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Re : Report Revision Notification

Intertek Testing Services Report Number GZHH00402041 Dated May 24, 2021


Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now supersede by a revised Intertek Testing Services Report, GZHH00402041S1

Details of report amendment:

1. Add testing for new product per client's request.

Thank you for your attention.

Authorized by:  
For Intertek Testing Services Shenzhen Ltd.  
Guangzhou Branch, Hardlines



Victor T.J. Wang  
Assistant General Manager

