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国际互认
检测
TESTING
CNAS L4783

Test Report

Report No.: NAP2409042301E

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Applicant: Innovative Eyewear, Inc

Address: 11900 Biscayne Blvd #630, North Miami, FL 33181, United States

The following test sample information is provided and confirmed by the applicant:

Sample Name: Smart Eyewear
Model: LCD008-10, LCD010-10, LCD010-11, LCD010-20, LCD010-21, LCD010-30, LCD010-31, LCD010-40, LCD010-41
Trade Mark: Lucyd Reebok
Manufacturer: Shenzhen Gonbes Technology Co. Ltd
Manufacturer Address: RM501, Bldg 3, Mengliyuan Industrial Park, 124 Yousong Rd, Longhua Str, Longhua Dist, Shenzhen, Guangdong Province, 518000, CHINA
Factory: Shenzhen Gonbes Technology Co. Ltd
Factory Address: RM501, Bldg 3, Mengliyuan Industrial Park, 124 Yousong Rd, Longhua Str, Longhua Dist, Shenzhen, Guangdong Province, 518000, CHINA

Date of sample(s) received: Sep.13,2024
Date of Test Period: Sep.13,2024 ~ Sep.20,2024
Date of Report: Sep.20,2024

TEST REQUESTED

CONCLUSION

1. As specified by client, to determine the ROHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU -Screening by X-ray fluorescence spectroscopy and confirmed by wet chemical method of Lead, Cadmium, Mercury, Chromium and Brominated flame retardants (PBB & PBDE) in submitted samples. PASS
2. As specified by client, to determine the Total Phthalates Content [ROHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU] in submitted samples. PASS

NAP Testing Technology Service (Zhongshan) Co., LTD

Lian Yi

Lian Yi

Authorized Signatory



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Test Result(s):

1. ROHS DIRECTIVE (EU) 2015/863 AMENDING ANNEX II TO DIRECTIVE 2011/65/EU

-SCREENING BY X-RAY FLUORESCENCE SPECTROSCOPY AND CONFIRMED BY WET CHEMICAL METHOD OF LEAD, CADMIUM, MERCURY, CHROMIUM AND BROMINATED FLAME RETARDANTS (PBB & PBDE)

TESTED MATERIAL	SCHEME	TARGET RoHS SUBSTANCES	TEST METHOD USED	XRF RESULT (in mg/kg)	CHEMICAL TEST RESULT (in mg/kg)
001	001	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
002	002	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
003	003	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
004	004	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
005	005	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
006	006	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	



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TESTED MATERIAL	SCHEME	TARGET RoHS SUBSTANCES	TEST METHOD USED	XRF RESULT (in mg/kg)	CHEMICAL TEST RESULT (in mg/kg)
007	007	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
008	008	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
009	009	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
010	010	All	XRF + Chemical	Cd: N.D	Cr ⁶⁺ : Negative
				Cr: Inconclusive	
				Pb: N.D	
				Hg: N.D	
				Br: N.A.	
011	011	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.A.	
012	012	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	



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TESTED MATERIAL	SCHEME	TARGET RoHS SUBSTANCES	TEST METHOD USED	XRF RESULT (in mg/kg)	CHEMICAL TEST RESULT (in mg/kg)
013	013	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
014	014	All	XRF + Chemical	Cd: N.D	PBBs: N.D (<5.0) PBDEs: N.D (<5.0)
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: Inconclusive	
015	015	All	XRF + Chemical	Cd: N.D	Cr ⁶⁺ : Negative
				Cr: Inconclusive	
				Pb: N.D	
				Hg: N.D	
				Br: N.A.	
016	016	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
017	017	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.A.	
018	018	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.A.	



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TESTED MATERIAL	SCHEME	TARGET RoHS SUBSTANCES	TEST METHOD USED	XRF RESULT (in mg/kg)	CHEMICAL TEST RESULT (in mg/kg)
019	019	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.A.	
020	020	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.A.	
021	021	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.A.	
022	022	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
023	023	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.A.	
024	024	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	



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025	025	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.A.	
026	026	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
027	027	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
028	028	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
029	029	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
030	030	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	



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TESTED MATERIAL	SCHEME	TARGET RoHS SUBSTANCES	TEST METHOD USED	XRF RESULT (in mg/kg)	CHEMICAL TEST RESULT (in mg/kg)
031	031	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.A.	

Remark(s):

- RL = Reporting Limits
- N.D = Not Detected (<RL)
- Mg/kg = parts per million = ppm
- N/T = Not tested
- N.A.= Not applicable

2. Total Phthalates Content [ROHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU]

Test Method: IEC 62321-8: 2017

Analyte	CAS No.	Requirement (Max.), %	Reporting Limit, %	Sample, %
				001+002+009+014+022+026+027
Dibutyl Phthalate, DBP	84-74-2	0.1	0.005	<0.005
Benzyl Butyl Phthalate, BBP	85-68-7	0.1	0.005	<0.005
Diethylhexyl Phthalate, DEHP	117-81-7	0.1	0.005	<0.005
Diisobutyl Phthalate, DIBP	84-69-5	0.1	0.005	<0.005
Rating				PASS

Analyte	CAS No.	Requirement (Max.), %	Reporting Limit, %	Sample, %
				003+004+016+024
Dibutyl Phthalate, DBP	84-74-2	0.1	0.005	<0.005
Benzyl Butyl Phthalate, BBP	85-68-7	0.1	0.005	<0.005
Diethylhexyl Phthalate, DEHP	117-81-7	0.1	0.005	<0.005
Diisobutyl Phthalate, DIBP	84-69-5	0.1	0.005	<0.005
Rating				PASS



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<u>Analyte</u>	<u>CAS No.</u>	<u>Requirement (Max.), %</u>	<u>Reporting Limit, %</u>	<u>Sample, %</u>
				<u>028+029+030</u>
Dibutyl Phthalate, DBP	84-74-2	0.1	0.005	<0.005
Benzyl Butyl Phthalate, BBP	85-68-7	0.1	0.005	<0.005
Diethylhexyl Phthalate, DEHP	117-81-7	0.1	0.005	<0.005
Diisobutyl Phthalate, DIBP	84-69-5	0.1	0.005	<0.005
<u>Rating</u>				PASS

Remark(s):

-All concentrations expressed in percentage (%)

-"<" means less than

-Method for determination of Phthalates are determined by Gas Chromatography Mass Selective Detector (GC-MSD)

-The test results only apply to the items tested.

TEST METHODS:

- (1) Sample prepared with reference to IEC 62321-2 Ed1.0:2021 Determination of certain substances in electrotechnical products – Part 2: Disassembly, disjunction and mechanical sample preparation;
- (2) Sample Screening testing with reference to IEC 62321-3-1 Ed1.0:2013 Determination of certain substances in electrotechnical products – Part 3-1: Screening – Lead, mercury, Cadmium, total chromium and total bromine using X-ray fluorescence spectrometry;
- (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 Cr⁶⁺.
- (b) Results are obtained by XRF for primary screening, and further chemical testing by ICP-OES(for Cd, Pb, Hg), UV-Vis(for Cr⁶⁺) and GC/MS(for PBBs, PBDEs) is recommended to be performed.

XRF screening limits in mg/kg for regulated elements according to IEC 62321-3-1 Ed1.0:2013

ELEMENT	POLYMER	METALS	COMPOSITE MATERIAL
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
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	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$

Remark(s):

BL = Below Limit, OL = Over Limit, LOD = Limit of Detection, -- = Not Regulated

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



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TEST METHODS:

(3) Wet Chemical Test Method

TESTING ITEM	CHEMICAL TESTING METHOD	RL	LIMIT
Cd	With reference to IEC 62321-5 Ed1.0:2013, by acid digestion and determined by ICP-OES	5.0mg/kg	100mg/kg
Pb	With reference to IEC 62321-5 Ed1.0:2013, by acid digestion and determined by ICP-OES	5.0mg/kg	1000mg/kg
Hg	With reference to IEC 62321-4 Ed1.1:2017, by acid digestion and determined by ICP-OES	5.0mg/kg	1000mg/kg
Cr ⁶⁺ (for non-metal)	With reference to IEC 62321-7-2 Ed1.0:2017, by the colorimetric method	5.0mg/kg	1000mg/kg
Cr ⁶⁺ (for metal)	With reference to IEC 62321-7-1 Ed1.0:2015 by the water-boiling method	/	/
PBBs Content	With reference to IEC 62321-6 Ed1.0:2015, by solvent extraction and determined by GC-MSD	5.0mg/kg	1000mg/kg
PBDEs Content	With reference to IEC 62321-6 Ed1.0:2015, by solvent extraction and determined by GC-MSD	5.0mg/kg	1000mg/kg
DEHP,BBP,DBP, DIBP	With reference to IEC 62321-8 Ed1.0:2017 clause 8.2.1.4 by gas chromatography-mass spectrometry	50mg/kg	1000mg/kg

Remark(s): According to IEC 62321-7-1 Ed1.0:2015, result on Cr⁶⁺ for metal sample is shown as Positive/Negative.



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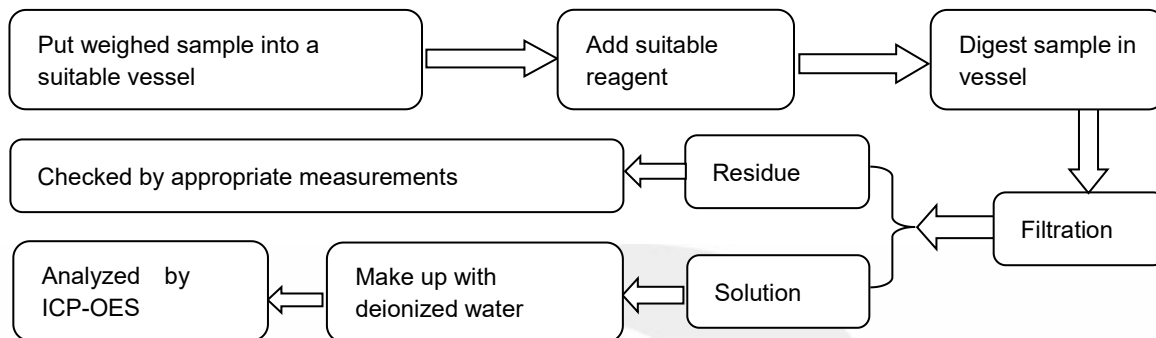
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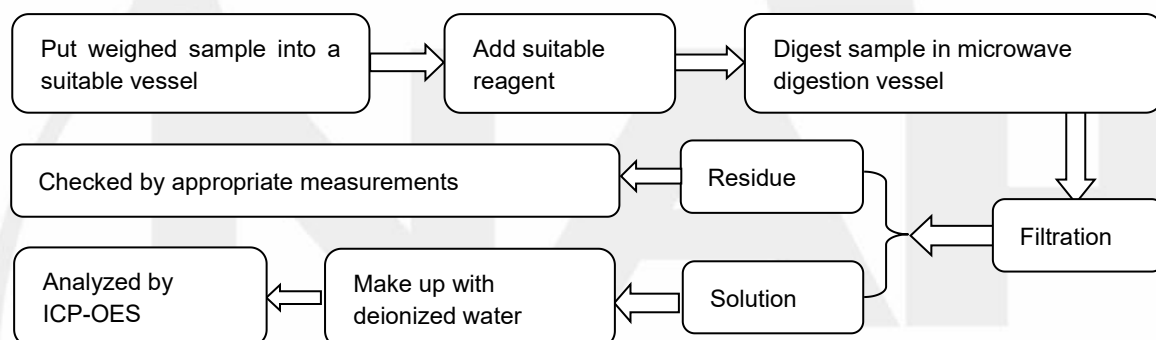
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TEST PROCESS

1. Test for Lead (Pb), Cadmium (Cd) contents(IEC 62321-5 Ed1.0:2013):

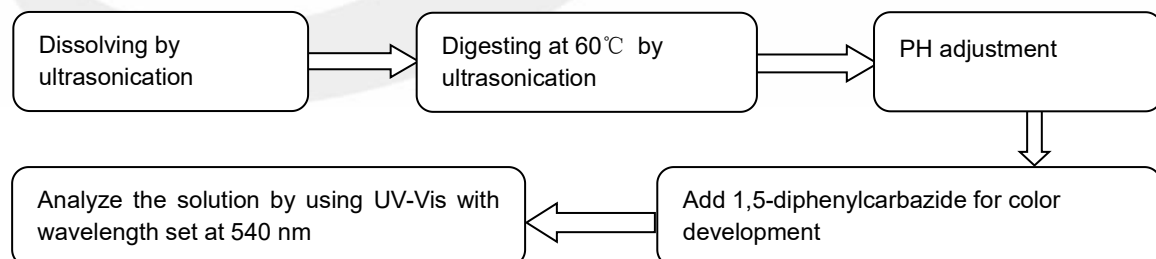


2. Test for Mercury (Hg) contents (IEC 62321-4 Ed1.1:2017):



3. Test for Nonmetallic Materials Chromium(Cr(VI)) contents (IEC 62321-7-2 Ed1.0:2017):

3.1 ABS/PC/PVC

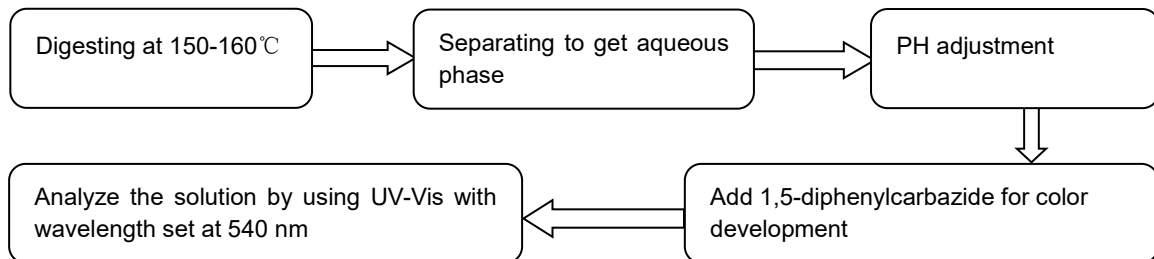


Test Report

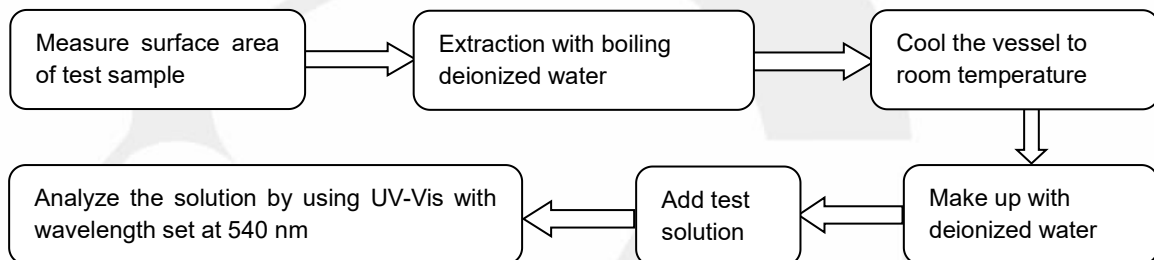
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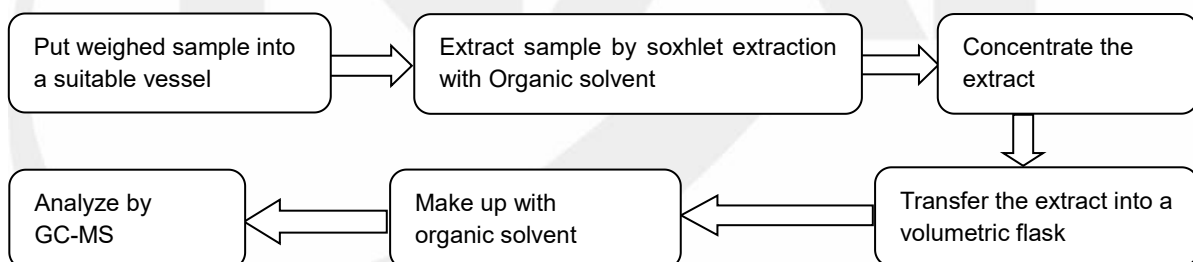
3.2 others



4. Test for metal Chromium(Cr(VI)) contents (IEC 62321-7-1 Ed1.0:2015):



5. Test for PBBs & PBDEs contents (IEC 62321-6 Ed1.0:2015):



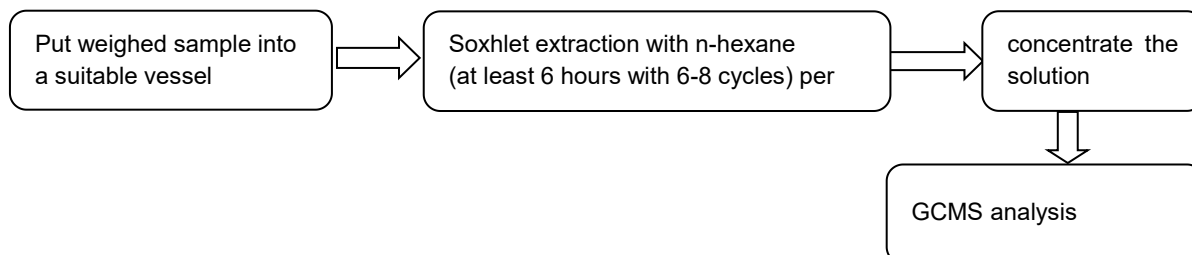
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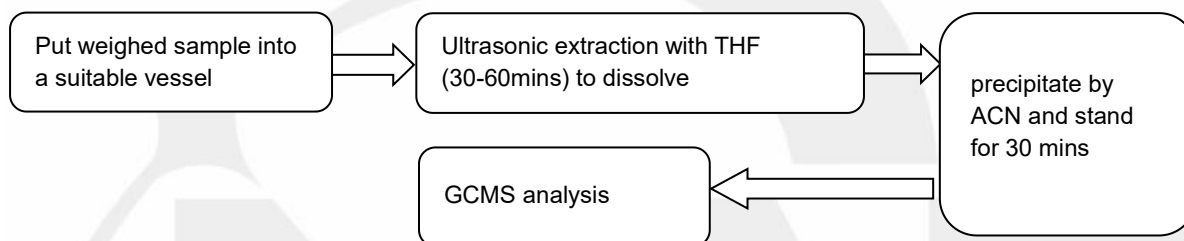
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6. Test for Phthalate content (DEHP,BBP,DBP,DIBP) (IEC 62321-8 Ed1.0:2017):

6.1 Test for general polymer



6.2 Test for THF soluble polymer



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Sample description:

- (001) Black plastic border
- (002) Transparent plastic lenses
- (003) Yellow soft plastic nose pad
- (004) Black soft plastic cover
- (005) Black and white electronic components
- (006) Silver electronic components (crystal oscillator)
- (007) Black electronic component (transistor)
- (008) Black electronic components (chip capacitors)
- (009) Black plastic switch
- (010) Silver metal casing (switch)
- (011) tin solder
- (012) Brown electronic components (chip capacitors)
- (013) Black electronic components (ICs)
- (014) Blue PCB board
- (015) Silver metal screw
- (016) Translucent soft plastic film (speaker)
- (017) Silver metal frame (speaker)
- (018) Silver magnet
- (019) Silver metal wire with blue coating
- (020) Silver metal wire with red coating
- (021) Copper colored metal head
- (022) Yellow plastic film (battery)
- (023) Silver metal casing (USB)
- (024) Black plastic casing (USB)
- (025) Copper colored metal pins (USB)
- (026) White plastic frame (USB)
- (027) Transparent plastic adhesive (USB)
- (028) Black plastic wire jacket (USB)
- (029) Red plastic wire jacket (USB)
- (030) Black plastic wire jacket (USB)
- (031) Silver metal wire



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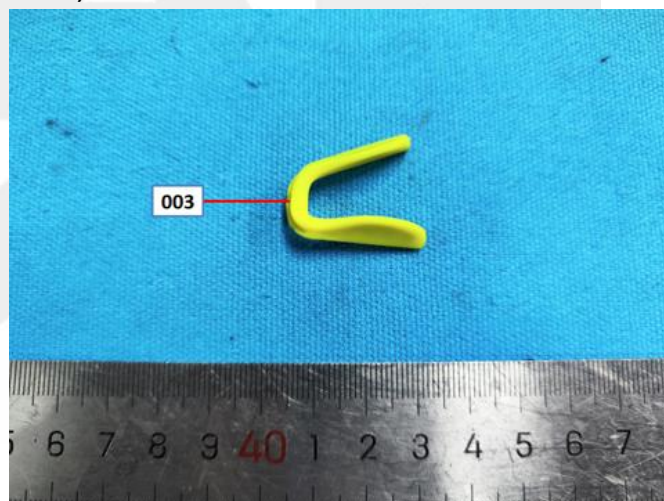
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Photo(s) of test sample(s):



(whole product)



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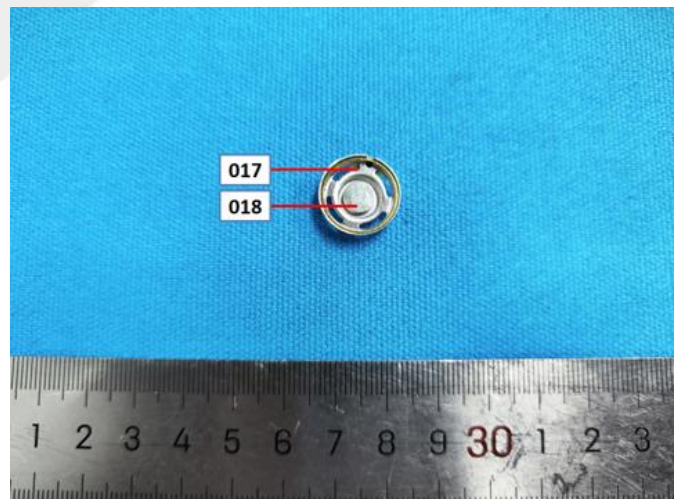
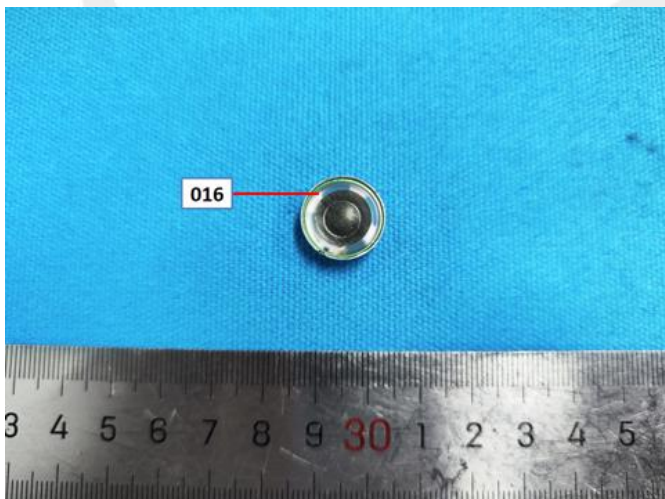
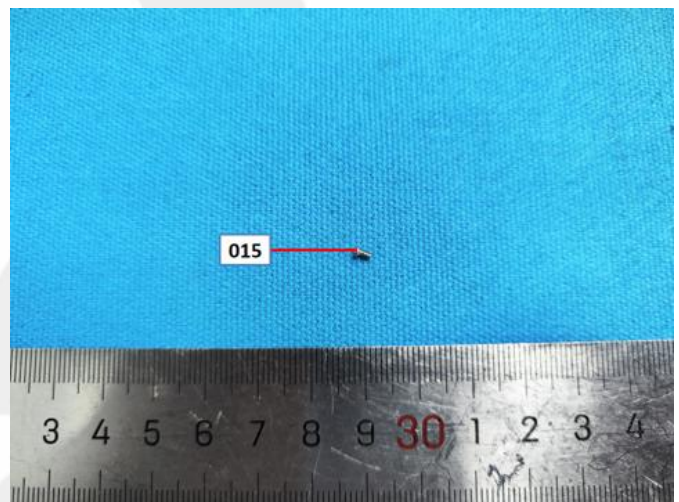
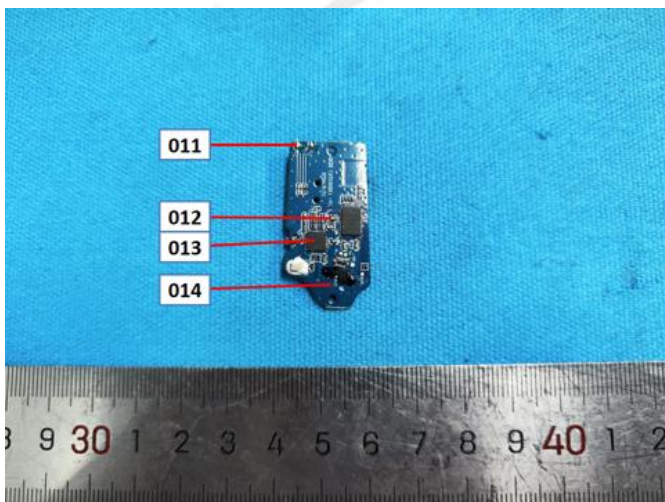
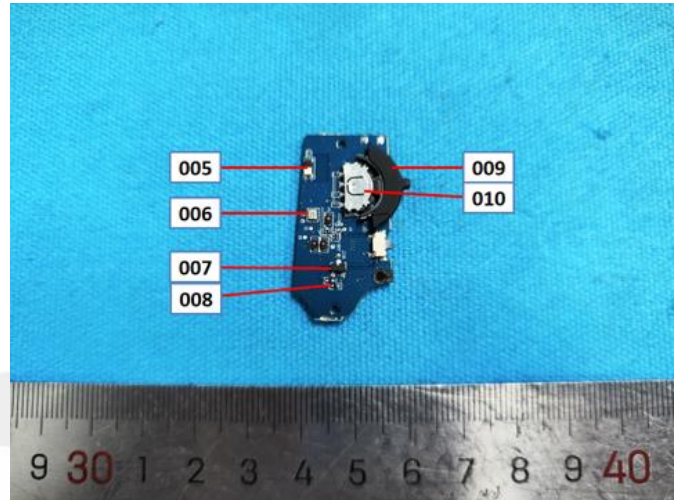
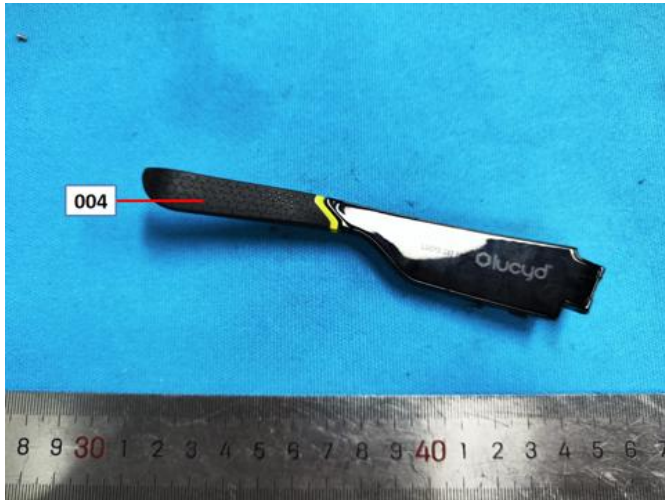
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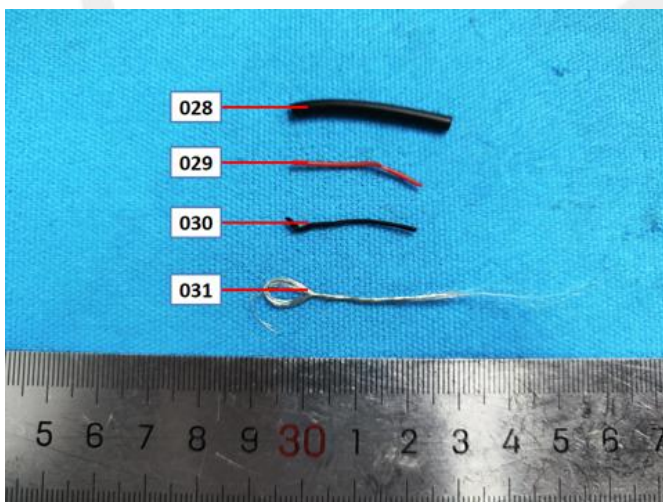
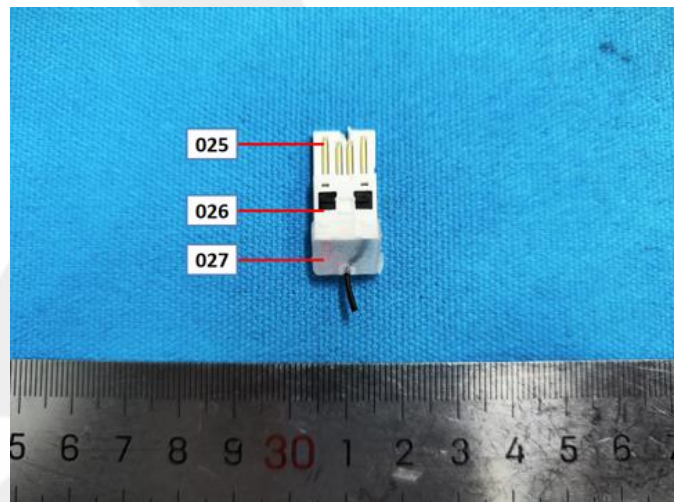
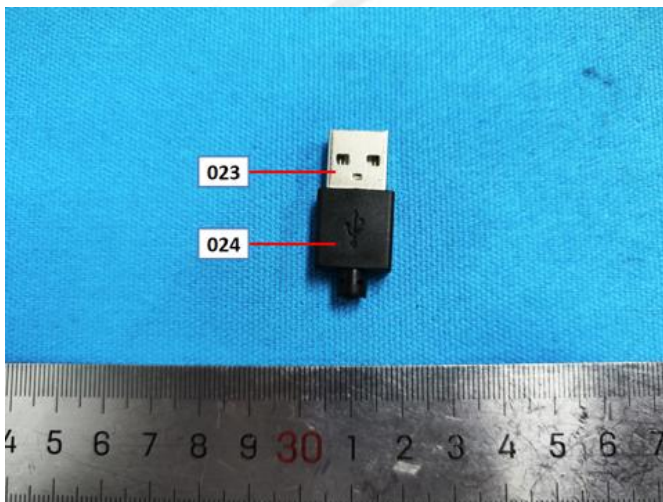
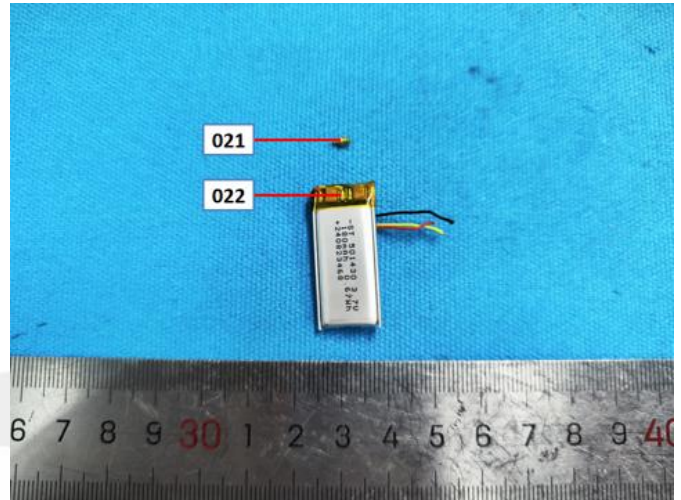
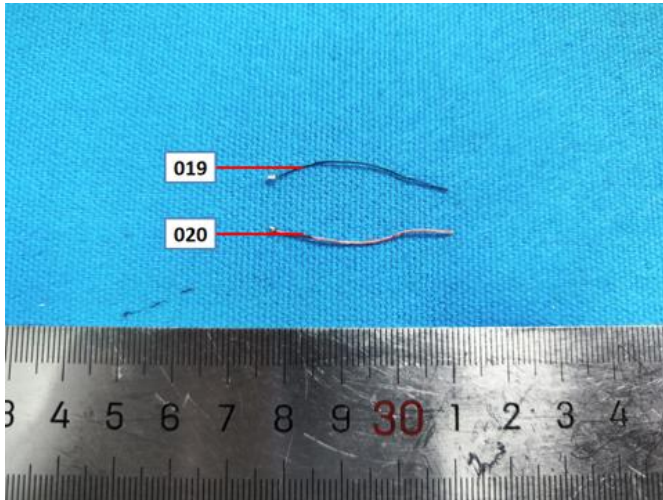
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