

TEST REPORT

Report No. AL2207454301EN

Approved date: Jul. 8, 2022

Page 1 / 8

Applicant XINDAO B.V.
Address LANGE KLEIWEG 6, 2288 GK RIJSWIJK THE NETHERLANDS

The following submitted sample(s) was/were identified by/on behalf of the Applicant as

Sample Name Indoor/outdoor weather station, silver
Item No. P279.201

Summary

Date Received Jul. 1, 2022
Test Period Jul. 1, 2022 to Jul. 8, 2022
Test Request As specified by applicant, to determine the content of Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs) and Phthalates (DBP, BBP, DEHP, DIBP) in the received samples.

Conclusion The test results show that Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs) and four phthalates (DBP, BBP, DEHP, DIBP) in the received samples conformed to requirements of RoHS Directive(EU) 2015/863 amending Annex II to Directive 2011/65/EU.

For more information about the test, please refer to the following pages.

Compiled
By

He hai ying

Checked
By

Chen Junjun

Approved
By



Jiang Ping

Signed for and on behalf of
Shanghai Lelangtek Testing Technology Co., Ltd.
Room 101-103 of 1st Floor and 2nd-3rd Floor, Building 4, No.158, Jinfeng Road, Pudong District, Shanghai

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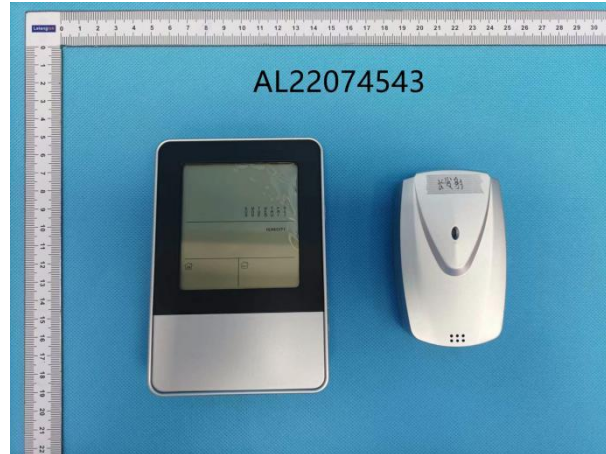
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TEST REPORT

Report No. AL2207454301EN

Approved date: Jul. 8, 2022

Page 2 / 8

Sample Photo(s)

Lelangtek authenticated the photos on original report only

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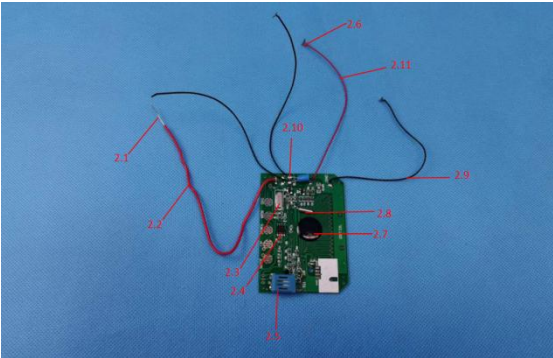
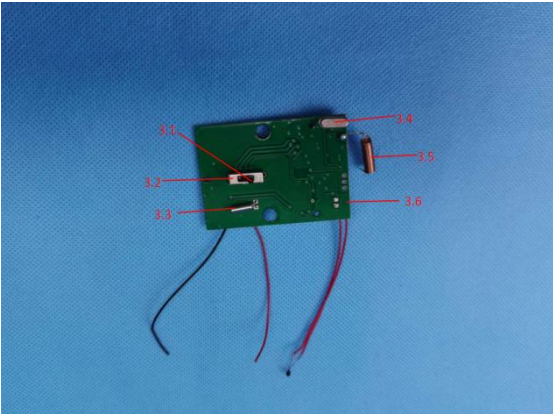
TEST REPORT

Report No. AL2207454301EN

Approved date: Jul. 8, 2022

Page 3 / 8

The list of test component

Component No.	Test Component description	Test Component photo(s)
1.1	Plastic with silvery plating	
1.2	Black plastic	
1.3	Green transparent plastic film	
1.4	Transparent glass	
1.5	Silvery plastic film	
1.6	Pink/black rubber strip	
1.7	Grey silicone	
1.8	Black foam	
1.9	Silvery metal sheet	
1.10	Silvery metal	
1.11	Copper metal	
1.12	Silvery metal screw	
1.13	Silvery metal screw	
1.14	Silvery metal screw	
2.1	Silvery metal wire	
2.2	Red plastic wire leather (thick)	
2.3	Silvery metal	
2.4	Black body	
2.5	Blue plastic	
2.6	Silvery metal	
2.7	Black solid	
2.8	Silvery metal	
2.9	Black plastic wire leather	
2.10	Silvery metal solder	
2.11	Red plastic wire leather (thin)	
3.1	Black plastic	
3.2	Silvery metal	
3.3	Silvery metal	
3.4	Silvery metal	
3.5	Copper metal spring	
3.6	Green PCB board	

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TEST REPORT

Report No. AL2207454301EN

Approved date: Jul. 8, 2022

Page 4 / 8

Test Result(Unit:mg/kg)

Component No.	Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs	DBP, BBP, DEHP, DIBP	Conclusion
1.1	BL	BL	BL	BL	BL	BL	ND*▲	Pass
1.2	BL	BL	BL	BL	BL	BL	ND*▲	Pass
1.3	BL	BL	BL	BL	BL	BL	ND*▲	Pass
1.4	BL	BL	BL	BL	BL	BL	ND*▲	Pass
1.5	BL	BL	BL	BL	BL	BL	ND*▲	Pass
1.6	BL	BL	BL	BL	BL	BL	ND*▲	Pass
1.7	BL	BL	BL	BL	BL	BL	ND*▲	Pass
1.8	BL	BL	BL	BL	BL	BL	ND*▲	Pass
1.9	BL	BL	BL	BL	--	--	--	Pass
1.10	BL	BL	BL	BL	--	--	--	Pass
1.11	#12.72x10 ⁴ *	20*	BL	BL	--	--	--	Pass
1.12	BL	BL	BL	BL	--	--	--	Pass
1.13	BL	BL	BL	BL	--	--	--	Pass
1.14	BL	BL	BL	BL	--	--	--	Pass
2.1	BL	BL	BL	BL	--	--	--	Pass
2.2	BL	BL	BL	BL	BL	BL	ND*▲	Pass
2.3	BL	BL	BL	BL	--	--	--	Pass
2.4	BL	BL	BL	BL	BL	BL	ND*▲	Pass
2.5	BL	BL	BL	BL	BL	BL	ND*▲	Pass
2.6	BL	BL	BL	BL	--	--	--	Pass
2.7	BL	BL	BL	BL	BL	BL	ND*▲	Pass
2.8	BL	BL	BL	BL	--	--	--	Pass
2.9	BL	BL	BL	BL	BL	BL	ND*▲	Pass
2.10	BL	BL	BL	BL	--	--	--	Pass
2.11	BL	BL	BL	BL	BL	BL	ND*▲	Pass
3.1	BL	BL	BL	BL	BL	BL	ND*▲	Pass
3.2	BL	BL	BL	BL	--	--	--	Pass
3.3	BL	BL	BL	BL	--	--	--	Pass
3.4	BL	BL	BL	BL	--	--	--	Pass
3.5	BL	BL	BL	BL	--	--	--	Pass
3.6	BL	BL	BL	BL	ND*	ND*	ND*▲	Pass

Note:

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TEST REPORT

Report No. AL2207454301EN

Approved date: Jul. 8, 2022

Page 5 / 8

- (1) mg/kg = ppm=parts per million
- (2) --= Not applicable.
- (3) XRF Screening limits in mg/Kg for regulated elements in different materials(Table A.2 of Annex A to IEC62321-3-1:2013)

Element	Polymers	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	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	Not applicable	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

BL = Below Limit,

OL = Over Limit,

LOD = Limit Of Detection,

3σ = Repeatability of the analyser at the action level.

- (4) ND=Not detected, the test result(s) is/are below the method detection limit as for wet chemistry method.
- (5) PBB=Polybrominated Biphenyls (PBBs) means Monobromobiphenyls, Dibromobiphenyls, Tribromobiphenyls, Tetrabromobiphenyls, Pentabromobiphenyls, Hexabromobiphenyls, Heptabromobiphenyls, Octabromobiphenyls, Nonabromobiphenyls and Decabromobiphenyls
PBDE=Polybrominated Diphenyl Ethers (PBDEs) means Monobromodiphenyl ethers, Dibromodiphenyl ethers, Tribromodiphenyl ethers, Tetrabromodiphenyl ethers, Pentabromodiphenyl ethers, Hexabromodiphenyl ethers, Heptabromodiphenyl ethers, Octabromodiphenyl ethers, Nonabromodiphenyl ethers, Decabromodiphenyl ethers
- (6) *=Denotes as reported result(s) was(were) performed by wet chemistry method. Others were screened by XRF. For XRF 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. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limited to, sample size, thickness, area, non-uniformity composition, surface flatness and so on.
- (7) ^=As per applicant's request, similar materials were tested as one component. The above result(s) only given as the informality value and only for reference.
- (8) Restricted substances referred to in Article 4(1) and maximum concentration values tolerated by weight in homogeneous materials

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Report No. AL2207454301EN

Approved date: Jul. 8, 2022

Page 6 / 8

Lead (Pb, 0,1 %)**Mercury (Hg, 0,1 %)****Cadmium (Cd, 0,01 %)****Hexavalent chromium (Cr(VI), 0,1 %)****Polybrominated biphenyls (sum of PBB) (0,1 %)****Polybrominated diphenyl ethers (sum of PBDE) (0,1 %)****Bis(2-ethylhexyl) phthalate (DEHP) (0,1 %)****Butyl benzyl phthalate (BBP) (0,1 %)****Dibutyl phthalate (DBP) (0,1 %)****Diisobutyl phthalate (DIBP) (0,1 %)**

The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

The restriction of DEHP, BBP, DBP and DIBP shall not apply to cables or spare parts for the repair, the reuse, the updating of functionalities or upgrading of capacity of EEE placed on the market before 22 July 2019, and of medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, placed on the market before 22 July 2021.

The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

- (9) When Cr(VI) in a sample is detected below the $0.10 \mu\text{g}/\text{cm}^2$, the sample is negative for Cr(VI). When Cr(VI) is detected above $0.13 \mu\text{g}/\text{cm}^2$, the sample is positive for the presence of Cr(VI) in the coating layer. A "grey zone" between $0.10 \mu\text{g}/\text{cm}^2$ and $0.13 \mu\text{g}/\text{cm}^2$ has been established as "inconclusive" to reduce inconsistent results due to unavoidable coating variations. In this case, additional testing may be necessary to confirm the presence of Cr(VI).
- (10) #1: As per applicant's declaration, the material of the sample(s) refers to Clause 6(c) of Appendix III Exemption Item of EU Directive 2011/65/EU (RoHS Directive): Copper alloy containing up to 2.72 % lead by weight.

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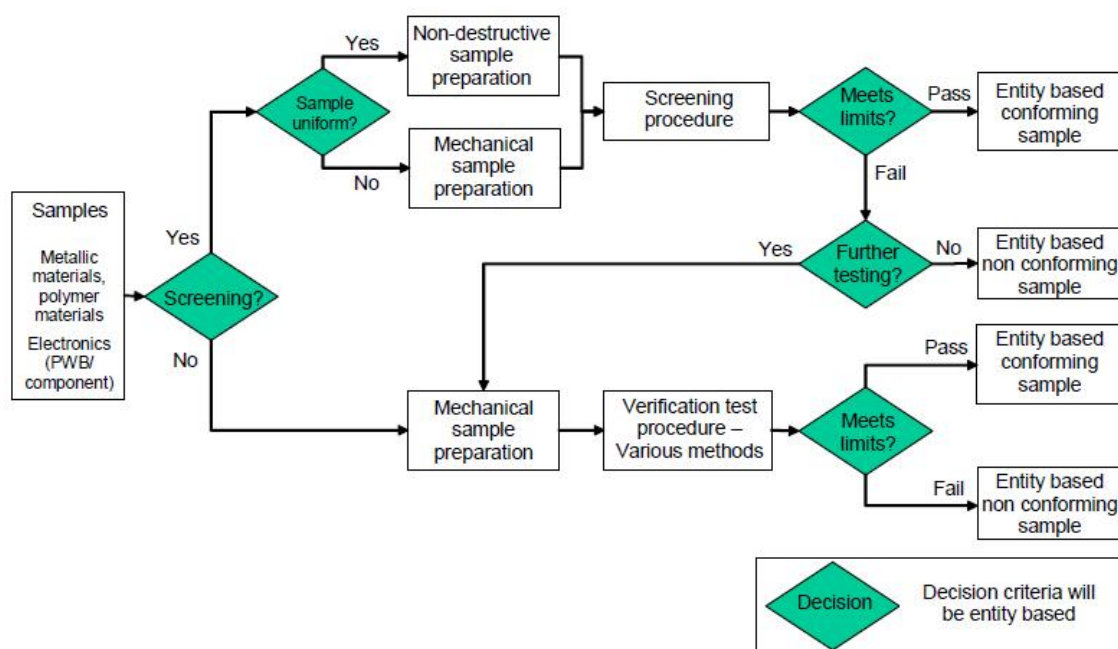
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Page 7 / 8

TEST METHOD

Test Item	Test Method	Method Detection Limit	Measured Equipment
Pb/Cd/Hg/ Total Cr/Total Br	IEC 62321-3-1: 2013	Cd:50mg/kg Others:100mg/kg	XRF
Lead (Pb),Cadmium (Cd)	IEC 62321-5: 2013	10mg/kg	ICP-OES
Mercury (Hg)	IEC 62321-4: 2013+AMD1:2017 CSV	10mg/kg	ICP-OES
Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	Note(9)	UV-Vis
	IEC 62321-7-2:2017	8mg/kg	
Polybrominated Biphenyls (PBBs),Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	10mg/kg	GC-MS
Phthalates(PAEs)	IEC 62321-8:2017	50mg/kg	GC-MS

Flow chart (IEC 62321-1:2013 Figure 1 - Flow chart of the test methods)



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Report No. AL2207454301EN

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Page 8 / 8

IEC 62321-3-1: 2013

Determination of certain substances in electrotechnical products –Part 3-1: Screening – Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry

IEC 62321-5: 2013

Determination of certain substances in electrotechnical products – Part 5: Cadmium, lead and chromium in polymers and electronics and cadmium and lead in metals by AAS, AFS, ICP-OES and ICP-MS

IEC 62321-4: 2013/AMD1:2017

Determination of certain substances in electrotechnical products – Part 4:Mercury in polymers, metals and electronics by CV-AAS, CV-AFS, ICP-OES and ICP-MS

IEC 62321-7-1:2015

Determination of certain substances in electrotechnical products – Part7-1: Hexavalent chromium – Presence of hexavalent chromium (Cr(VI)) in colourless and coloured corrosion-protected coatings on metals by the colorimetric method

IEC 62321-7-2:2017

Determination of certain substances in electrotechnical products – Part7-2: Hexavalent chromium – Determination of hexavalent chromium (Cr(VI)) in polymers and electronics by the colorimetric method

IEC 62321-6:2015

Determination of certain substances in electrotechnical products – Part 6: Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography – mass spectrometry (GC-MS)

IEC 62321-8:2017

Determination of certain substances in electrotechnical products – Part8: Phthalates in polymers by gas chromatography mass spectrometry (GC-MS), gas Chromatography -mass spectrometry using a pyrolyzer/thermal desorption accessory (Py/TD-GC-MS)

* * * * * End of Report * * * * *

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- (3) The results shown in this report refer only to the lab received sample(s) .
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