

TEST REPORT

Applicant : Paul Stricker SA
Address : Núcleo Industrial de Murtede, Lote 5 3060-372 Murtede - Portugal

Report on the submitted sample said to be:

Sample name : Clock
Trade Name : N/A
Model : 97390
Manufacturer : [REDACTED]
Address : [REDACTED]
Test conclusion : Based on the performed tests on submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis (2-ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP), Di Iso Butyl Ortho Phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.
Testing period : Apr. 09, 2020 to Apr. 21, 2020
Date of report : Apr. 21, 2020

Testing Requested:	Results
Selected test(s) as requested by client	Pass

Prepared by:

Jimi Zhao

Jimi Zhao

Examine By:

Calvin Chen

Calvin Chen

Approved (Manager):

Michael Mo

Michael Mo



Testing method:

1. With reference to IEC 62321-1:2013, review was performed for the samples disjoined from the submitted articles submitted by the Applicant
2. Tests were performed for the samples indicated by the photos in the report with test methods reference to IEC 62321-1:2013, Procedures for the determination of Levels of Six regulated Substances in Electrotechnical Products
 - (1) With reference to IEC 62321-3-1:2013, Screening by XRF spectorscop
 - (2) Wet Chemical Test Method
 - a. With reference to IEC 62321-5:2013, Determination of Lead &Cadmium by ICP-OES or AAS
 - b. With reference to IEC 62321-4:2013, Determination of Mercury by ICP-OES
 - c. With reference to IEC 62321-7-1:2015, Determination of Hexavalent Chromium by Spot or Colorimetic Methodcd
 - d. With reference to IEC 62321-6:2015, Derermination of PBBs and PBDEs by GC-MS
 - e. With reference to IEC 62321-8:2017, determination of DEHP, DIBP, DBP and BBP by GC-MS

Note: The test results are related only to the tested items. The report shall note be reproduced excpt in full without the written approval of the testing laboratory.

Part No.	Part Description	Restricted Substance	Results of EDXRF	Result of wet Chemical Testing (2mg/kg)	Conclusion on RoHS	Sample submitted/ Resubmitted Date
1	Black plastic	Pb Cd Hg Cr(VI) Br DEHP BBP DBP DIBP	BL BL BL BL BL IN IN IN IN	- - - - - ND ND ND ND	Comply Comply Comply Comply Comply Comply Comply Comply Comply	Apr. 21, 2020
2	Black plastic (battery cover)	Pb Cd Hg Cr(VI) Br DEHP BBP DBP DIBP	BL BL BL BL BL IN IN IN IN	- - - - - ND ND ND ND	Comply Comply Comply Comply Comply Comply Comply Comply Comply	Apr. 21, 2020
3	Compression plate	Pb Cd Hg Cr(VI) Br DEHP BBP DBP DIBP	BL BL BL BL BL IN IN IN IN	- - - - - ND ND ND ND	Comply Comply Comply Comply Comply Comply Comply Comply Comply	Apr. 21, 2020
4	Silver metal	Pb Cd Hg Cr(VI) Br DEHP BBP DBP DIBP	BL BL BL BL - - - - -	- - - - - - - - -	Comply Comply Comply Comply - - - - -	Apr. 21, 2020

Part No.	Part Description	Restricted Substance	Results of EDXRF	Result of wet Chemical Testing (2mg/kg)	Conclusion on RoHS	Sample submitted/ Resubmitted Date
5	Metal spring	Pb Cd Hg Cr(VI) Br DEHP BBP DBP DIBP	BL BL BL BL - - - - -	- - - - - - - - -	Comply Comply Comply Comply - - - - -	Apr. 21, 2020
6	PCB1	Pb Cd Hg Cr(VI) Br DEHP BBP DBP DIBP	BL BL BL BL IN IN IN IN IN	- - - - PBBs=ND PBDEs=ND ND ND ND ND	Comply Comply Comply Comply Comply Comply Comply Comply Comply	Apr. 21, 2020
7	Capacitor	Pb Cd Hg Cr(VI) Br DEHP BBP DBP DIBP	BL BL BL BL BL IN IN IN IN	- - - - - ND ND ND ND	Comply Comply Comply Comply Comply Comply Comply Comply Comply	Apr. 21, 2020
8	Buzzer	Pb Cd Hg Cr(VI) Br DEHP BBP DBP DIBP	BL BL BL BL BL IN IN IN IN	- - - - - ND ND ND ND	Comply Comply Comply Comply Comply Comply Comply Comply Comply	Apr. 21, 2020

Part No.	Part Description	Restricted Substance	Results of EDXRF	Result of wet Chemical Testing (2mg/kg)	Conclusion on RoHS	Sample submitted/ Resubmitted Date
9	SMD capacitor	Pb	BL	-	Comply	Apr. 21, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(VI)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	
10	SMD resistor	Pb	BL	-	Comply	Apr. 21, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(VI)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	
11	Diode	Pb	BL	-	Comply	Apr. 21, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(VI)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	
12	Triode	Pb	BL	-	Comply	Apr. 21, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(VI)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	

Part No.	Part Description	Restricted Substance	Results of EDXRF	Result of wet Chemical Testing (2mg/kg)	Conclusion on RoHS	Sample submitted/ Resubmitted Date
13	Input terminal	Pb	BL	-	Comply	Apr. 21, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(VI)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	
14	SW1	Pb	BL	-	Comply	Apr. 21, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(VI)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	
15	Tin solder	Pb	BL	-	Comply	Apr. 21, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(VI)	BL	-	Comply	
		Br	-	-	-	
		DEHP	-	-	-	
		BBP	-	-	-	
		DBP	-	-	-	
		DIBP	-	-	-	
16	Wiring	Pb	BL	-	Comply	Apr. 21, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(VI)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	

Part No.	Part Description	Restricted Substance	Results of EDXRF	Result of wet Chemical Testing (2mg/kg)	Conclusion on RoHS	Sample submitted/ Resubmitted Date
17	PCB2	Pb Cd Hg Cr(VI) Br DEHP BBP DBP DIBP	BL BL BL BL IN IN IN IN IN	- - - - PBBs=ND PBDEs=ND ND ND ND ND	Comply Comply Comply Comply Comply Comply Comply Comply Comply	Apr. 21, 2020
18	Digital tube	Pb Cd Hg Cr(VI) Br DEHP BBP DBP DIBP	BL BL BL BL BL IN IN IN IN	- - - - - ND ND ND ND	Comply Comply Comply Comply Comply Comply Comply Comply Comply	Apr. 21, 2020
19	White glue	Pb Cd Hg Cr(VI) Br DEHP BBP DBP DIBP	BL BL BL BL BL IN IN IN IN	- - - - - ND ND ND ND	Comply Comply Comply Comply Comply Comply Comply Comply Comply	Apr. 21, 2020
20	Button battery	Pb Cd Hg Cr(VI) Br DEHP BBP DBP DIBP	BL BL BL BL BL IN IN IN IN	- - - - - ND ND ND ND	Comply Comply Comply Comply Comply Comply Comply Comply Comply	Apr. 21, 2020

Part No.	Part Description	Restricted Substance	Results of EDXRF	Result of wet Chemical Testing (2mg/kg)	Conclusion on RoHS	Sample submitted/ Resubmitted Date
21	Silver metal (data cable)	Pb Cd Hg Cr(VI) Br DEHP BBP DBP DIBP	BL BL BL BL - - - - -	- - - - - - - - -	Comply Comply Comply Comply - - - - -	Apr. 21, 2020
22	ABS	Pb Cd Hg Cr(VI) Br DEHP BBP DBP DIBP	BL BL BL BL BL IN IN IN IN	- - - - - ND ND ND ND	Comply Comply Comply Comply Comply Comply Comply Comply Comply	Apr. 21, 2020
23	Black plastic	Pb Cd Hg Cr(VI) Br DEHP BBP DBP DIBP	BL BL BL BL BL IN IN IN IN	- - - - - ND ND ND ND	Comply Comply Comply Comply Comply Comply Comply Comply Comply	Apr. 21, 2020
24	Black plastic wire cover	Pb Cd Hg Cr(VI) Br DEHP BBP DBP DIBP	BL BL BL BL BL IN IN IN IN	- - - - - ND ND ND ND	Comply Comply Comply Comply Comply Comply Comply Comply Comply	Apr. 21, 2020

Part No.	Part Description	Restricted Substance	Results of EDXRF	Result of wet Chemical Testing (2mg/kg)	Conclusion on RoHS	Sample submitted/ Resubmitted Date
25	Wire core	Pb	BL	-	Comply	Apr. 21, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(VI)	BL	-	Comply	
		Br	-	-	-	
		DEHP	-	-	-	
		BBP	-	-	-	
		DBP	-	-	-	
		DIBP	-	-	-	

Remark:

- (1) (a) It is the result on total Br while test item on restricted is PBBs/PBDEs. It is the result on total Cr6+ while test item on restricted substances is Cr⁶⁺.
- (b) Results are obtained by EDXRF for primary screening ,and further chemical testing by ICP(for Cd, Pb, Hg), UV-VIS(for Cr⁶⁺) and GC\MS (for PBBs, PBDEs) is recommended to be performed , if the concentration exceeds the below warning value according to IEC62321(unit: mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$LOD < X < (1500+3\sigma) \leq OL$
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	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(c)BL=Below Limit, OL=Over Limit, IN=Inconclusive, LOD=Limit of Detection, -=Not Regulated,

Negative = A negative test result indicated above p ositive observation was not found at the time of te sting. When the spot-test showed a negative result, the boiling-wat er-extraction procedure shall be used to verify the result.

(#1) = As claimed by the declaration submitted by t he client, the Lead content of the components is co ming from the constituent of ceramic part of the electronic c omponent only. According to EU RoHS Directive, Lead in electronic ceramic parts of this component can be exempted.

(d)The XRF screening test for RoHS elements-The reading may be different to the actual content in the sample be of non-uniformity composition,

(2) (a) mg/kg=ppm=0.0001%, ND=Not Detected(<MDL)),

(b)Unit and Method Detection Limit(MDL)in wet chemical test

Test Items	Units	MDL	EU RoHS Limit
Pb	mg/kg	2	1000
Cd	mg/kg	2	100
Hg	mg/kg	2	1000
Cr(VI)	mg/kg	0.02 mg/50 cm ² (Metal)	1000
		2	
PBBs	mg/kg	5	1000
PBDEs	mg/kg	5	1000
DEHP	mg/kg	5	1000
BBP	mg/kg	5	1000
DBP	mg/kg	5	1000
DIBP	mg/kg	5	1000

(c) According to IEC 62321, result on Cr for metal sample is shown as Positive\Negative, Negative=Absence of Cr6+ costing, Positive=Prosence of Cr 6+ coating.

(d) ▲As declared by the client the materials fall into exemption items according to RoHS Directive 2011\65\EU recasting 2002\95\EC

Photograph of sample

POCE authenticate the photo on original report only



Photo 1



Photo 2



Photo 3



Photo 4

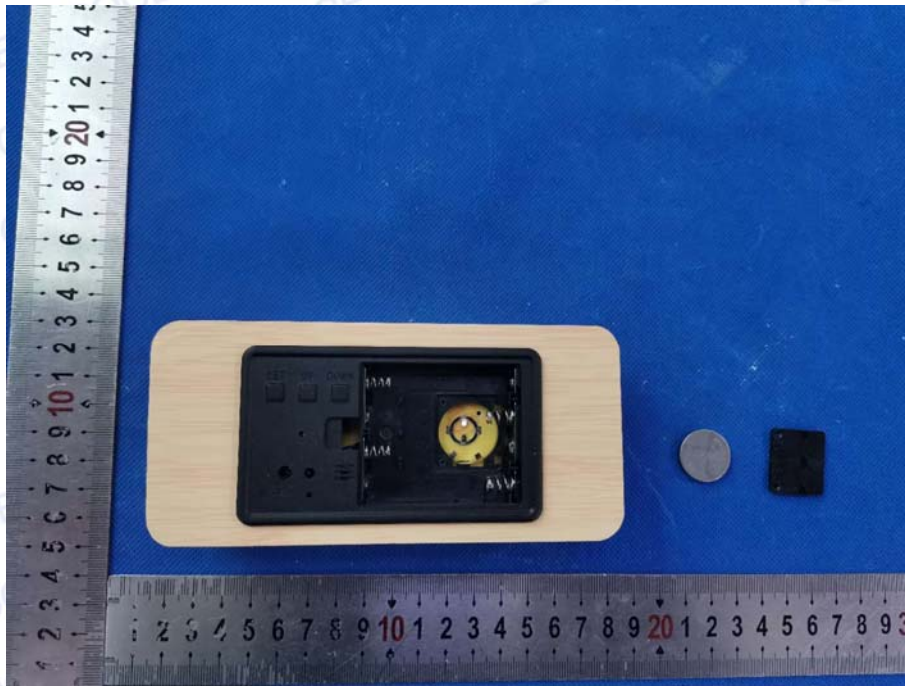


Photo 5

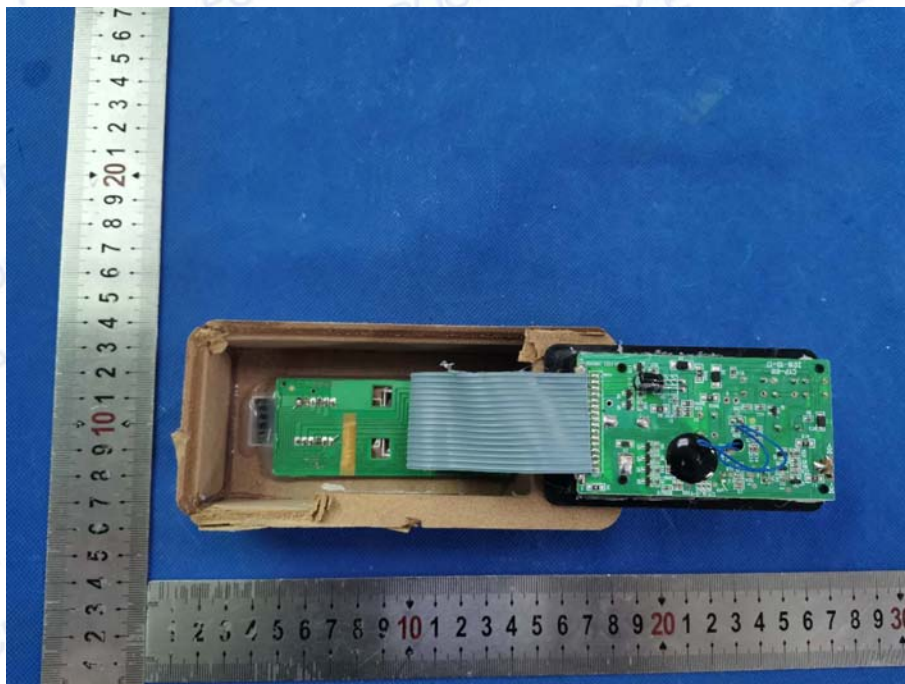


Photo 6



Photo 7



Photo 8

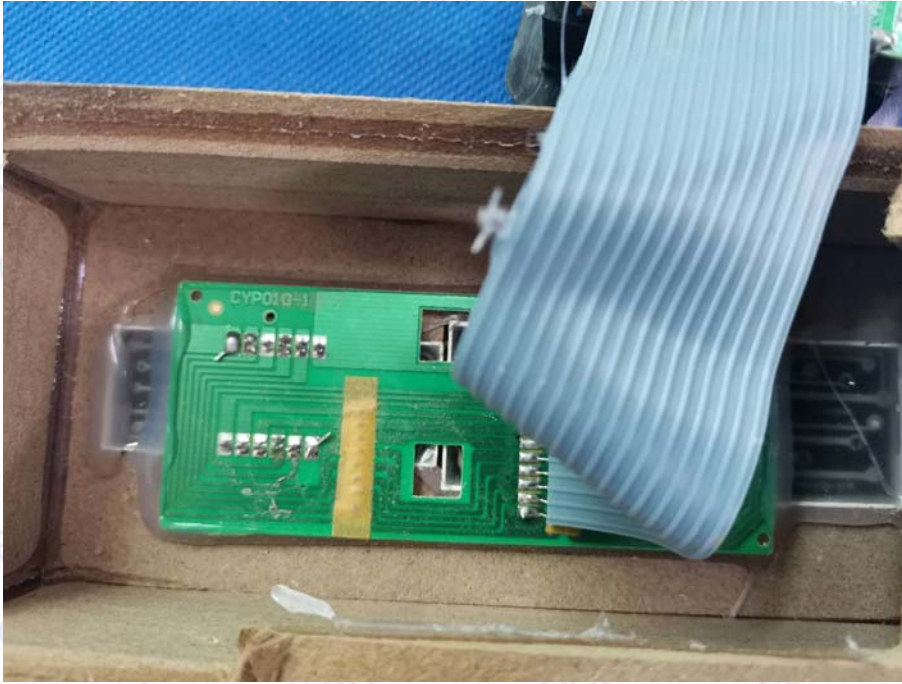


Photo 9

*****END OF REPORT*****