

TEST REPORT

Applicant : DongGuan Ikinor technology Co., Ltd
Address : Room 452, No.1 HengCheng Road ChangAn Town, DongGuan City,
GuangDong province.

Report on the submitted sample said to be:

Sample name : Interactive Flat Panel
Trademark : N/A
Model : ST65R, ST55R, ST75R, ST86R, ST98R, ST110R, FG55, FG65, FG75,
FG86, FG98, FG110, IK55R, IK65R, IK75R, IK86R, IK98R, IK110R, FB75,
FB85, FB86, PR55, PR65, PR75, PR86, PR98, PR110, IK55C, IK65C,
IK75C, IK86C, IK98C, IK110C, IB75, IB85, IB86
Manufacturer : DongGuan Ikinor technology Co., Ltd
Address : Room 452, No.1 HengCheng Road ChangAn Town, DongGuan City,
GuangDong province.
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 : Sep. 23, 2021 to Sep. 30, 2021
Date of report : Sep. 30, 2021

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

Prepared by:

Matilda

Matilda

Examine By:

Calvin Chen

Calvin Chen

Approved (Manager):

Michael

Michael Mo



Testing method:

1. With reference to IEC 62321-1:2013, review was performed for the samples disjointed 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 spectrometry
 - (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+A1:2017, Determination of Mercury by ICP-OES
 - c. With reference to IEC 62321-7-1:2015, Determination of Hexavalent Chromium by Spot or Colorimetric Method
 - d. With reference to IEC 62321-6:2015, Determination 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 not be reproduced, except in full, without the written approval of the Issuing 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	PCB	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	Sep. 30, 2021
2	SMD resistor	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	Sep. 30, 2021
3	SMD 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	Sep. 30, 2021
4	Quartz crystal resonator	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	Sep. 30, 2021

Part No.	Part Description	Restricted Substance	Results of EDXRF	Result of wet Chemical Testing (2mg/kg)	Conclusion on RoHS	Sample submitted/ Resubmitted Date
5	Coating	Pb	BL	-	Comply	Sep. 30, 2021
		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	
6	Metal back plate	Pb	BL	-	Comply	Sep. 30, 2021
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(VI)	BL	-	Comply	
		Br	-	-	-	
		DEHP	-	-	-	
		BBP	-	-	-	
		DBP	-	-	-	
		DIBP	-	-	-	
7	LCD	Pb	BL	-	Comply	Sep. 30, 2021
		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	
8	Screw	Pb	BL	-	Comply	Sep. 30, 2021
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(VI)	BL	-	Comply	
		Br	-	-	-	
		DEHP	-	-	-	
		BBP	-	-	-	
		DBP	-	-	-	
		DIBP	-	-	-	

Part No.	Part Description	Restricted Substance	Results of EDXRF	Result of wet Chemical Testing (2mg/kg)	Conclusion on RoHS	Sample submitted/ Resubmitted Date
9	Antenna	Pb	BL	-	Comply	Sep. 30, 2021
		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	Silver metal (plug)	Pb	BL	-	Comply	Sep. 30, 2021
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(VI)	BL	-	Comply	
		Br	-	-	-	
		DEHP	-	-	-	
		BBP	-	-	-	
		DBP	-	-	-	
		DIBP	-	-	-	
11	Power switch	Pb	BL	-	Comply	Sep. 30, 2021
		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	HDMI in port	Pb	BL	-	Comply	Sep. 30, 2021
		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	Touch port	Pb	BL	-	Comply	Sep. 30, 2021
		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	RJ45 port	Pb	BL	-	Comply	Sep. 30, 2021
		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	Ear phone port	Pb	BL	-	Comply	Sep. 30, 2021
		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	
16	AV in port	Pb	BL	-	Comply	Sep. 30, 2021
		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	VGA in port	Pb	BL	-	Comply	Sep. 30, 2021
		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	
		Pb	BL	-	Comply	
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(VI)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
19	RS232 port	DBP	IN	ND	Comply	Sep. 30, 2021
		DIBP	IN	ND	Comply	
		Pb	BL	-	Comply	
		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	
		Pb	BL	-	Comply	
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(VI)	BL	-	Comply	
		Br	BL	-	Comply	
20	SPDIF port	DEHP	IN	ND	Comply	Sep. 30, 2021
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	
		Pb	BL	-	Comply	
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(VI)	BL	-	Comply	

Part No.	Part Description	Restricted Substance	Results of EDXRF	Result of wet Chemical Testing (2mg/kg)	Conclusion on RoHS	Sample submitted/ Resubmitted Date
21	USB 2.0 port	Pb	BL	-	Comply	Sep. 30, 2021
		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	
22	USB 3.0 port	Pb	BL	-	Comply	Sep. 30, 2021
		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	
23	SD socket	Pb	BL	-	Comply	Sep. 30, 2021
		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	
24	FFC	Pb	BL	-	Comply	Sep. 30, 2021
		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
25	FFC connector	Pb	BL	-	Comply	Sep. 30, 2021
		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	
26	WiFi module	Pb	BL	-	Comply	Sep. 30, 2021
		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	
27	Bluetooth module	Pb	BL	-	Comply	Sep. 30, 2021
		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	
28	Internal wire	Pb	BL	-	Comply	Sep. 30, 2021
		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
29	Radiator	Pb	BL	-	Comply	Sep. 30, 2021
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(VI)	BL	-	Comply	
		Br	-	-	-	
		DEHP	-	-	-	
		BBP	-	-	-	
		DBP	-	-	-	
		DIBP	-	-	-	
30	Wave filter	Pb	BL	-	Comply	Sep. 30, 2021
		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	
31	White terminal	Pb	BL	-	Comply	Sep. 30, 2021
		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	
32	White terminal block	Pb	BL	-	Comply	Sep. 30, 2021
		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
33	Black tape	Pb	BL	-	Comply	Sep. 30, 2021
		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	
34	Internal thread cylindrical pin	Pb	BL	-	Comply	Sep. 30, 2021
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(VI)	BL	-	Comply	
		Br	-	-	-	
		DEHP	-	-	-	
		BBP	-	-	-	
		DBP	-	-	-	
		DIBP	-	-	-	
35	CBB	Pb	BL	-	Comply	Sep. 30, 2021
		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	
36	Thermistor	Pb	BL	-	Comply	Sep. 30, 2021
		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
37	Diode	Pb	BL	-	Comply	Sep. 30, 2021
		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	
38	Transformer	Pb	BL	-	Comply	Sep. 30, 2021
		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	
39	Electrolytic capacitor	Pb	BL	-	Comply	Sep. 30, 2021
		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	
40	Y capacitor	Pb	BL	-	Comply	Sep. 30, 2021
		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
41	Hollow inductor	Pb	BL	-	Comply	Sep. 30, 2021
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(VI)	BL	-	Comply	
		Br	-	-	-	
		DEHP	-	-	-	
		BBP	-	-	-	
		DBP	-	-	-	
		DIBP	-	-	-	
42	Pin Header	Pb	BL	-	Comply	Sep. 30, 2021
		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	
43	Fuse	Pb	BL	-	Comply	Sep. 30, 2021
		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	
44	Black sleeve	Pb	BL	-	Comply	Sep. 30, 2021
		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
45	Optocoupler	Pb	BL	-	Comply	Sep. 30, 2021
		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	
46	Rectifier bridge	Pb	BL	-	Comply	Sep. 30, 2021
		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	
47	SMD diode	Pb	BL	-	Comply	Sep. 30, 2021
		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	
48	SMD diode	Pb	BL	-	Comply	Sep. 30, 2021
		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
49	Field effect transistor	Pb	BL	-	Comply	Sep. 30, 2021
		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	
50	SMD inductor	DIBP	IN	ND	Comply	Sep. 30, 2021
		Pb	BL	-	Comply	
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(VI)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
51	Yellow glue	DBP	IN	ND	Comply	Sep. 30, 2021
		DIBP	IN	ND	Comply	
		Pb	BL	-	Comply	
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(VI)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
52	Button cell	BBP	IN	ND	Comply	Sep. 30, 2021
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	
		Pb	BL	-	Comply	
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(VI)	BL	-	Comply	
		Br	BL	-	Comply	

Part No.	Part Description	Restricted Substance	Results of EDXRF	Result of wet Chemical Testing (2mg/kg)	Conclusion on RoHS	Sample submitted/ Resubmitted Date
53	MOS tube	Pb	BL	-	Comply	Sep. 30, 2021
		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	
54	IC	Pb	BL	-	Comply	Sep. 30, 2021
		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	
55	Horn	Pb	BL	-	Comply	Sep. 30, 2021
		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	
56	Tin solder	Pb	BL	-	Comply	Sep. 30, 2021
		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	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
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	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$
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 positive observation was not found at the time of testing. When the spot-test showed a negative result, the boiling-water-extraction procedure shall be used to verify the result.

(#1) = As claimed by the declaration submitted by the client, the Lead content of the components is coming from the constituent of ceramic part of the electronic component 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+ coating, 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

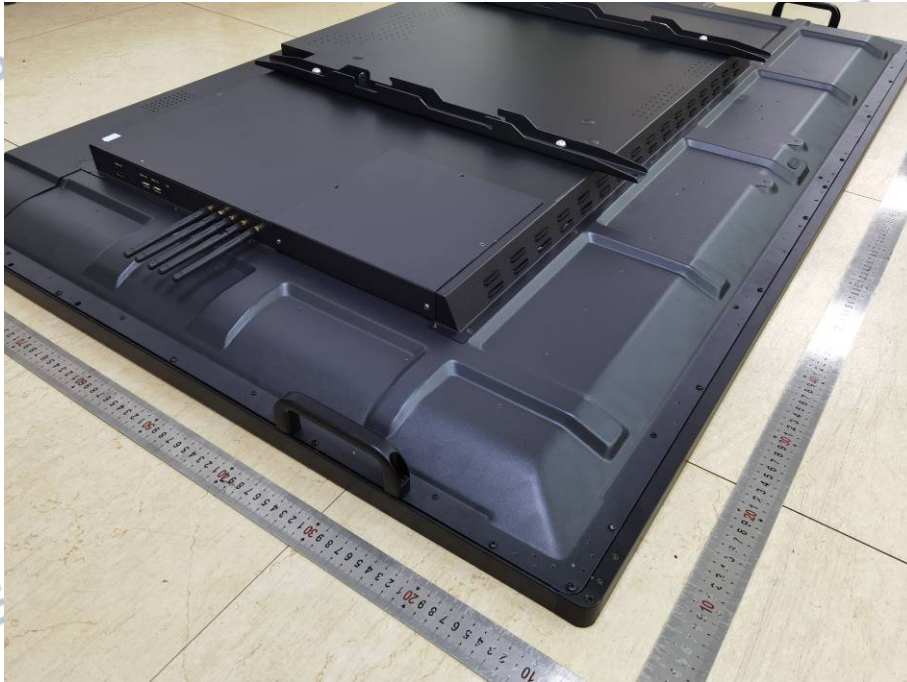


Photo 5



Photo 6



Photo 7



Photo 8

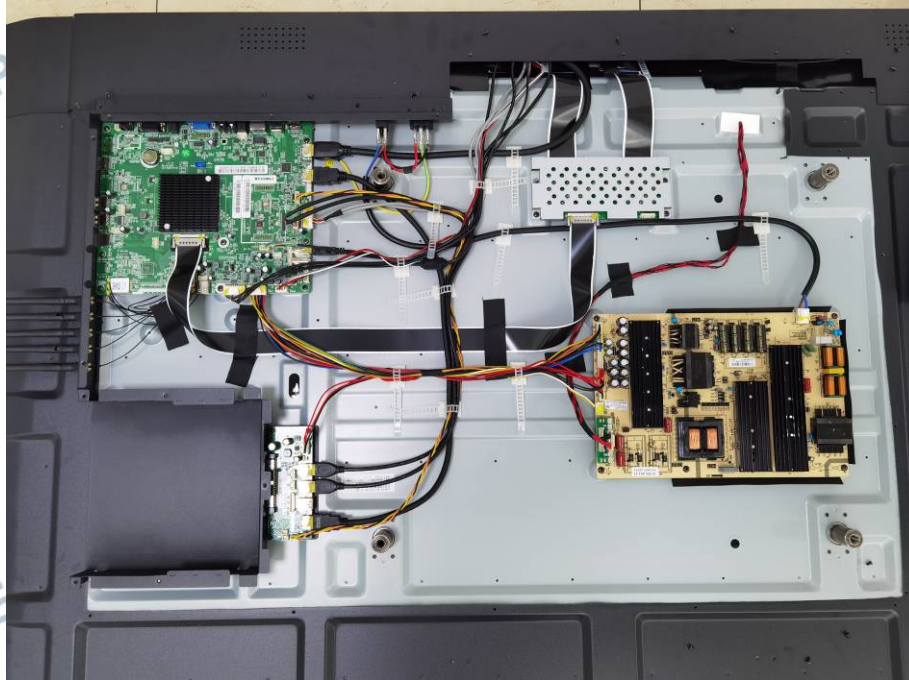


Photo 9

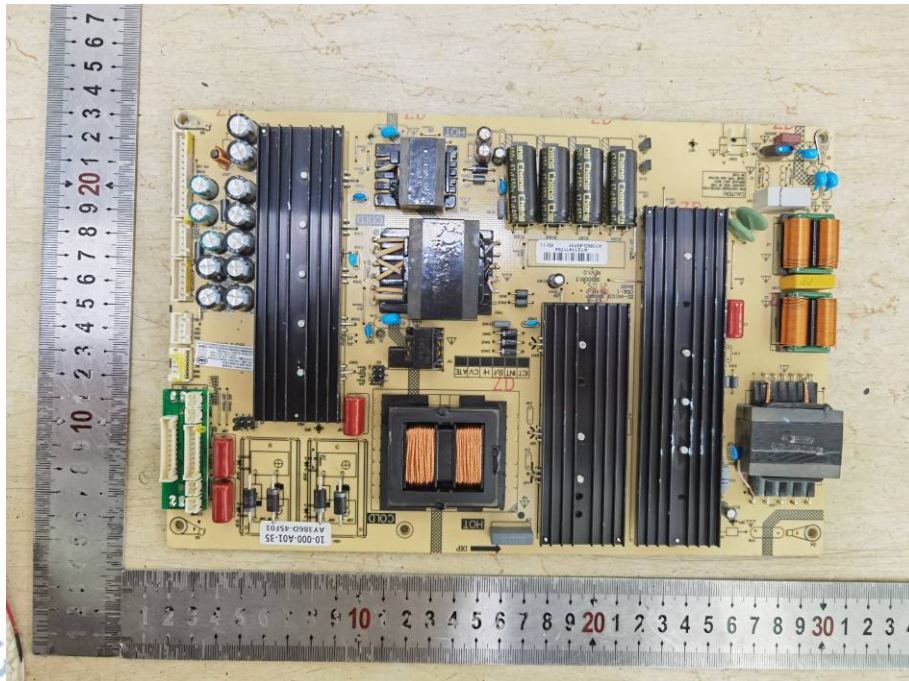


Photo 10

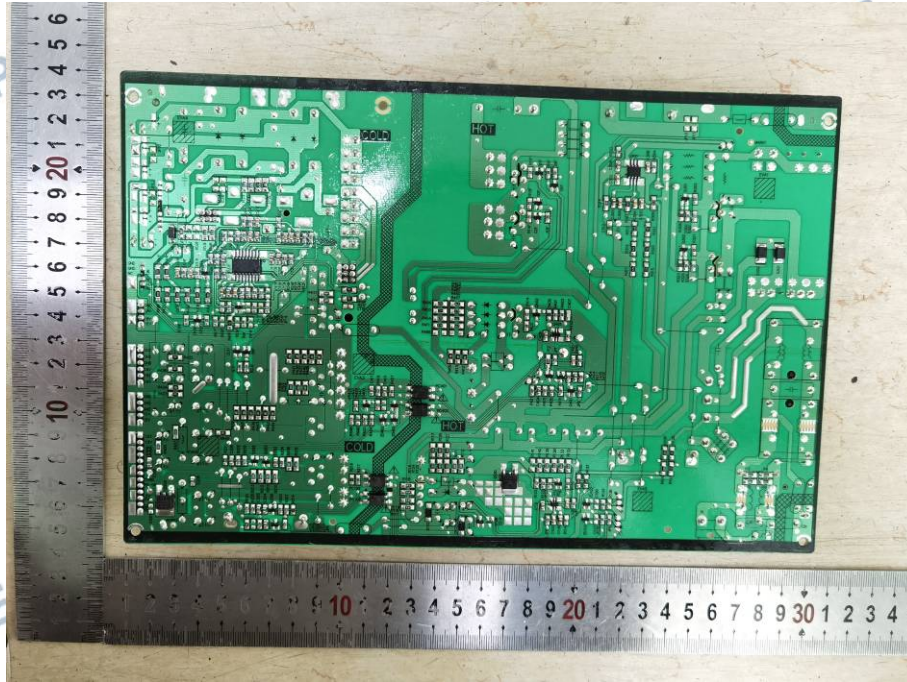


Photo 11

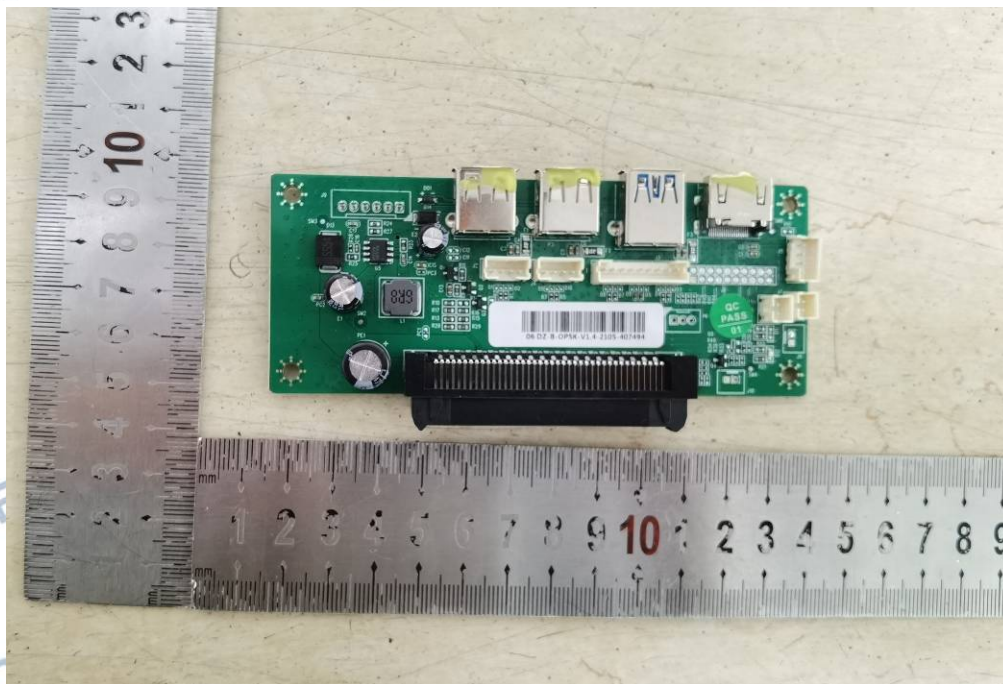


Photo 12

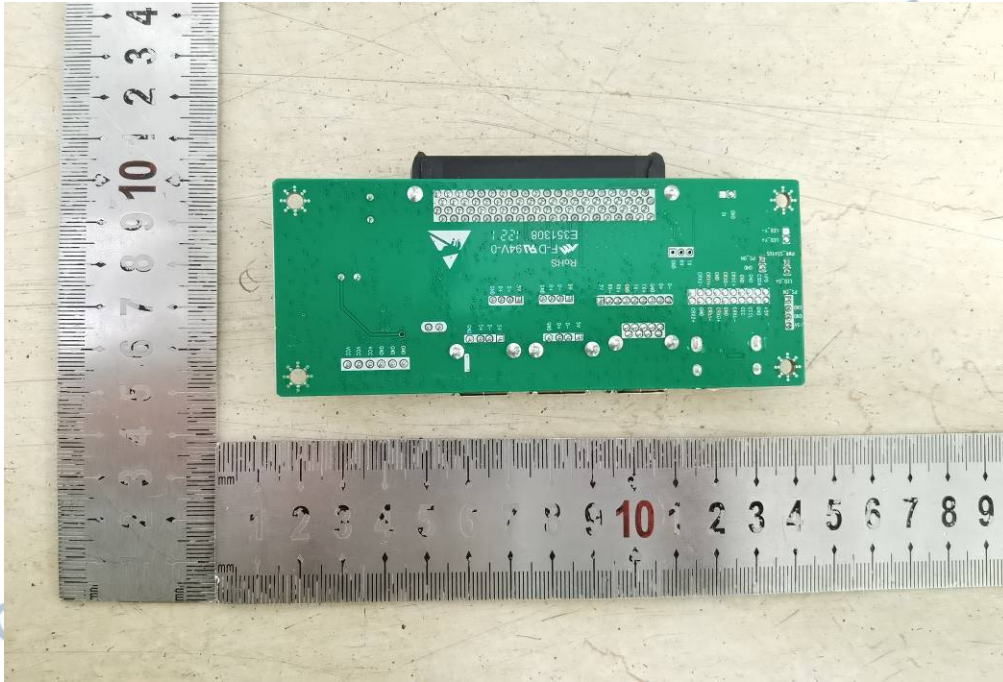


Photo 13

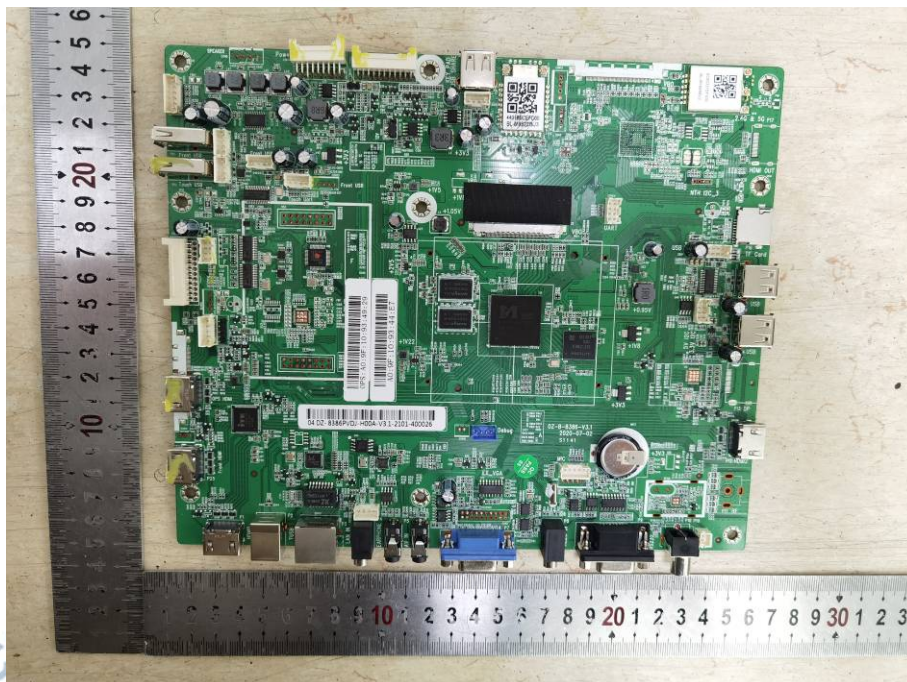


Photo 14

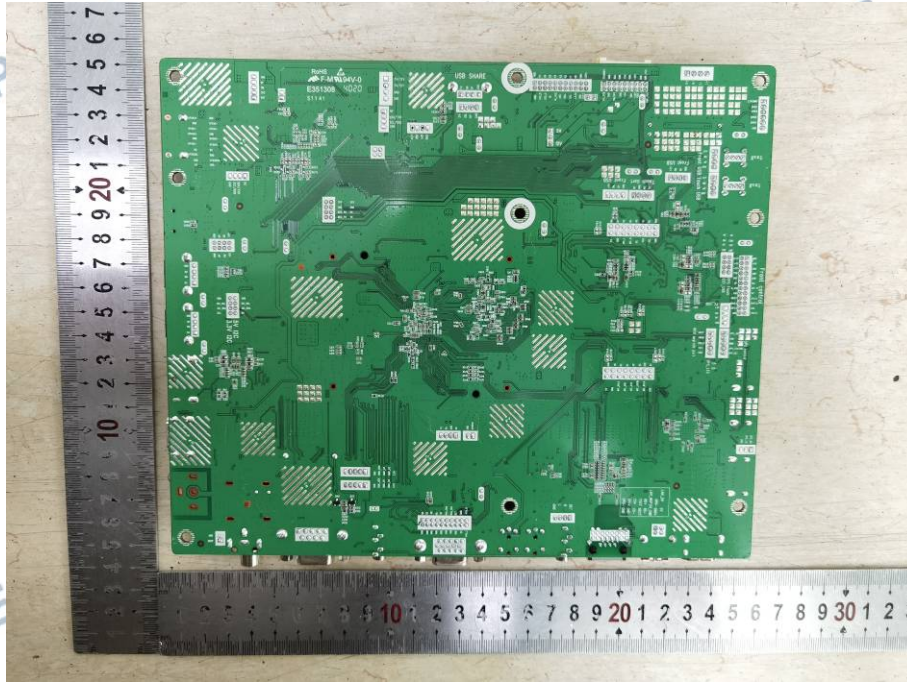


Photo 15

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