TEST REPORT

Applicant	:	**Fly Dragon Lighting Equipment. Co., Ltd**
Address	:	**NO.4 JINGNENG ROAD 1, HUADU DISTRICT, GUANGZHOU, 510800, CHINA**
Manufacturer's name	:	**Fly Dragon Lighting Equipment. Co., Ltd**
Address	:	**NO.4 JINGNENG ROAD 1, HUADU DISTRICT, GUANGZHOU, 510800, CHINA**

Report on the submitted samples said to be:

Sample Name	:	Stage Lighting
Trade Mark	:	LiGHT SKY
Tested Style No.	:	AURORA AQUA/IP550 BSW
Series models	:	N/A
Sample reception time	:	December 11, 2025
Testing Period	:	December 11, 2025 ~ December 23, 2025
Test request	:	According to RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.
Test method	:	Please refer to next page(s).
Results	:	Please refer to next page(s).

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Test Requirement	Conclusion
A. EU RoHS Directive (EU) 2015/863 amending Annex II to Directive2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominatedbiphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl)phthalate (DEHP), Butyl benzyl phthalate (BBP). Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

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Redact By Tina

Reviewed By Nana

Approval By Eric

Date of issue December 24, 2025

Results:

A. EU RoHS Directive 2011/65/EU

Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
1	Black plastic shell	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
2	Black metal	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	X	N.D.	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
3	Clear glass lens	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
4	Silver metal	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	X	N.D.	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
5	Gold metal	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
6	Black plastic	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
7	Black metal screw	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	X	N.D.	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
8	Silver metal screw	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
9	Black metal screw	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
10	Silver metal screw	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
11	Black metal screw	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	X	N.D.	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
12	Silver metal screw	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
13	Black metal screw	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
14	Silver metal screw	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	X	N.D.	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
15	Black metal screw	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
16	Gold metal nut	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
17	Silver metal screw	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
18	Gold metal	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
19	Silver metal screw	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	X	N.D.	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
20	Black metal gasket	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
21	Silver metal screw	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	X	N.D.	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
22	Silver metal spring	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
23	Silver metal gear	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	X	N.D.	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
24	Silver metal	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	X	N.D.	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
25	Black plastic belt	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
26	Brown plastic washer	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
27	White plastic insulated sleeve	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
28	Blue plastic	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
29	Black plastic	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
30	White plastic	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
31	Red plastic (insulated wire)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
32	Black plastic (insulated wire)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
33	Yellow-green plastic (insulated wire)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
34	White plastic (insulated wire)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
35	Yellow plastic (insulated wire)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
36	Blue plastic (insulated wire)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
37	Grey ceramic	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
38	White ceramic	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
39	Clear glass	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
40	Silver metal	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
41	Orange clear glass	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
42	Yellow clear glass	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
43	Purple clear glass	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
44	Blue clear glass	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
45	Green clear glass	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
46	Silver metal	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	X	N.D.	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
47	Silver metal	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	X	N.D.	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
48	Black plastic	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
49	Grey silica gel	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
50	Blue silica gel	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
51	Grey plastic	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
52	Capacitor (blue PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
53	Silver metal (blue PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	X	N.D.	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
54	Crystal oscillator (blue PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
55	Transistor (blue PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
56	Inductor (blue PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
57	White plastic (blue PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
58	IC (blue PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
59	Diode (blue PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
60	Grey plastic capacitor (blue PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
61	Gold wire (blue PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
62	Transformer (blue PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
63	Silver metal (blue PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	X	N.D.	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
64	IC (blue PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
65	Patch capacitor (blue PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
66	IC (blue PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
67	Solder (blue PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
68	Blue PCB	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	X	N.D.	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
69	Diode (green PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
70	Crystal oscillator (green PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
71	IC (Green PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
72	Patch capacitor (green PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
73	Black plastic capacitor (green PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
74	White plastic (green PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
75	Brown baseband (green PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
76	Black glass display (green PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
77	Silver metal (green PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
78	Black plastic (green PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
79	Black plastic capacitor (green PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
80	IC (Green PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
81	Crystal oscillator (green PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
82	Red plastic (green PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
83	Green capacitor (green PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
84	Black resistor (green PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
85	Inductor (green PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
86	Green PCB	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	X	N.D.	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
87	Black capacitor (red PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
88	Black ceramic capacitor (red PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
89	Black plastic capacitor (red PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
90	Transistor (red PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
91	Gold wire (red PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
92	Red plastic capacitor (red PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
93	Blue ceramic capacitor (red PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
94	Green ceramic (red PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	
95	Brown ceramic capacitor (red PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	BL	/	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	
96	Solder (red PCB)	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	/	/	
		DBP	/	/	
		BBP	/	/	
		DEHP	/	/	
		DIBP	/	/	

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Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
97	Red PCB	Pb	BL	/	Pass
		Cd	BL	/	
		Hg	BL	/	
		Cr(Cr(VI))▼	BL	/	
		Br(PBBs&PBDEs)▼	X	N.D.	
		DBP	/	N.D.	
		BBP	/	N.D.	
		DEHP	/	N.D.	
		DIBP	/	N.D.	

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Note:

(1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ<X <130+3σ≤OL	BL≤70-3σ<X <130+3σ≤OL	BL≤50-3σ<X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ<X	BL≤700-3σ<X	BL≤500-3σ<X
Br	mg/kg	BL≤300-3σ<X	--	BL≤250-3σ<X

BL = Below Limit
OL = Over Limit
X = Inconclusive

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

(3) The maximum permissible limit is quoted from the document 2015/863/EC amending RoHS directive 2011/65/EU.

(4) ▼=For restricted substances PBBs and PBDEs, the results show the total Br content; The restricted substance was Cr (VI), and the results showed the total Cr content.

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 report is sufficient for its/his/her purposes.

The result 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 are required to obtain quantitative data.

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(5) Test method:

Lead (Pb) & Cadmium (Cd) Content:
According to IEC 62321-5:2013, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES)

Mercury (Hg) Content:
According to IEC 62321-4:2013+AMD1:2017 CSV, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES)

Hexavalent Chromium (Cr^{6+}) Content:
According to IEC 62321-7-1:2015 or IEC 62321-7-2:2017, by alkaline digestion and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:
According to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

DBP, BBP, DEHP, DIBP Content:
According to IEC 62321-8:2017, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

RoHS Restricted Substances	Unit	MDL	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	mg/kg	2	100
Lead (Pb)	mg/kg	2	1000
Mercury (Hg)	mg/kg	2	1000
Hexavalent Chromium (Cr(VI))	ug/cm^2 (Metal); mg/kg (Nonmetal)	0.1ug/cm^2 (Metal); 8mg/kg (Nonmetal)	See below (Metal); 1000mg/kg (Nonmetal)
Polybrominated biphenyls (PBBs)	mg/kg	5	1000
Polybrominated diphenyl ethers (PBDEs)	mg/kg	5	1000
Dibutyl Phthalate (DBP)	mg/kg	50	1000
Benzyl butyl Phthalate (BBP)	mg/kg	50	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	mg/kg	50	1000
Diispbutyl Phthalate (DIBP)	mg/kg	50	1000

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- MDL = Method Detection Limit
- /= Not apply
- LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm^2
- mg/kg = ppm=parts per million
- N.D.=Not Detected (<MDL or LOQ)
- a. The sample is positive for Cr (VI) if the Cr (VI) concentration is greater than 0.13ug/cm^2. The sample coating is considered to contain Cr (VI)
  b. The sample is negative for Cr (VI) if Cr (VI) is N.D. (concentration less than 0.10ug/cm^2). The sample coating is considered a non- Cr (VI) based coating
  c. The result between 0.10μg/cm^2 and 0.13μg/cm^2 is considered to be inconclusive, unavoidable coating variations may influence the determination

#1 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 5(a), Lead is exempted in glass of cathode ray tubes, electronic components and fluorescent tubes.

#2 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 7(c)-I, Lead is exempted in glass or ceramic otherthan dielectric ceramic in capacitors (e.g. piezo electronic devices)or in a glass orceramic matrix compound.

#3 According to the statement provided by the customer, RoHS directive 2011/65/EU based on ANNEX III 6(c), Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.

#4 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 7(a), Lead is exempted in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).

#5 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 6(b), Lead is exempted as an alloying element in Aluminum containing up to 0.4% (4000ppm) by weight.

#6 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 8(b), Cadmium and its compounds in electrical contact is exempted.

#7 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 6(a), Lead is exempted in steel for machining purposes and in galvanized steel containing up to 0.35% (3500ppm) by weight.

- Photo appendix is included.

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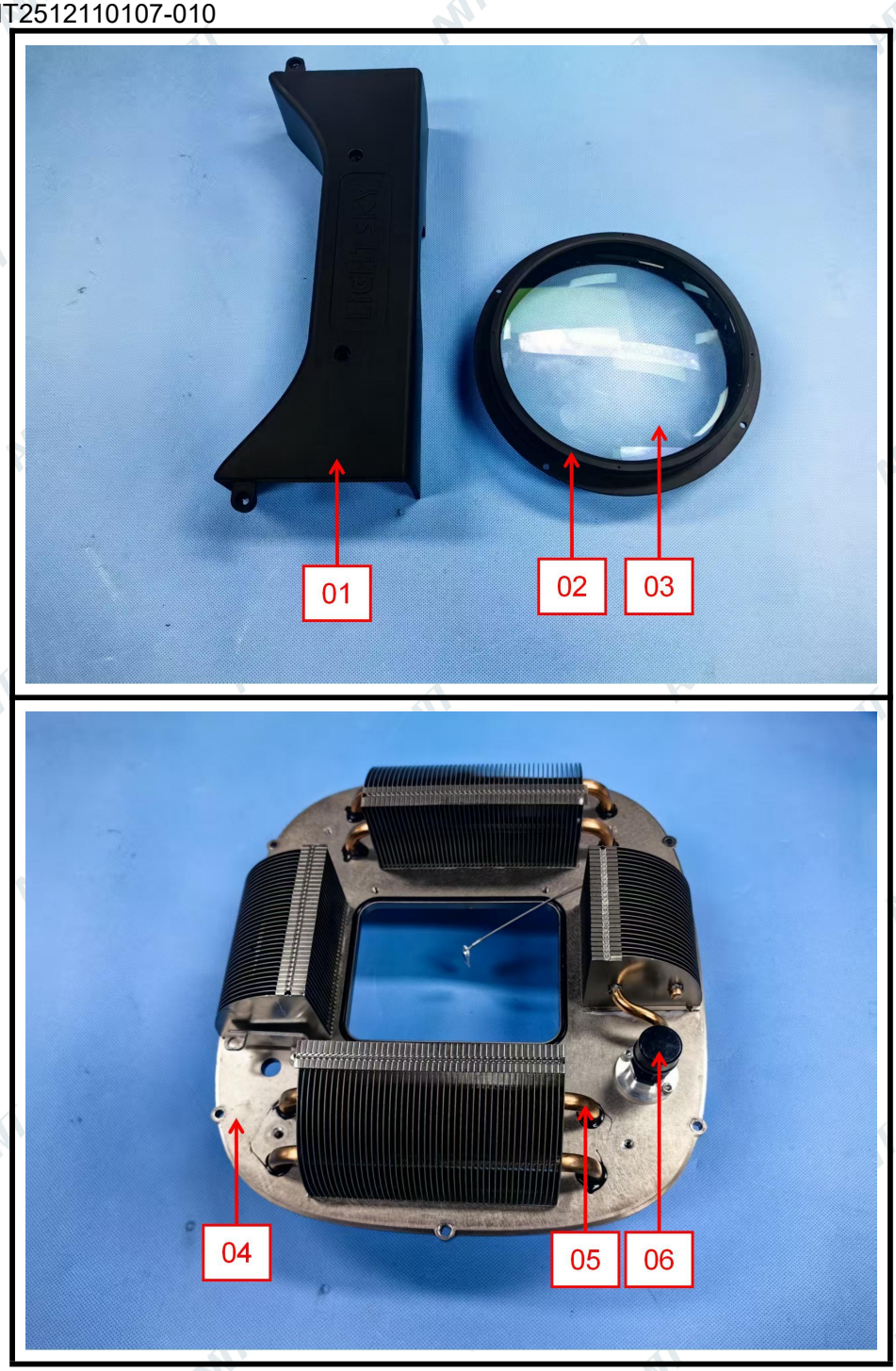
The photo of the sample

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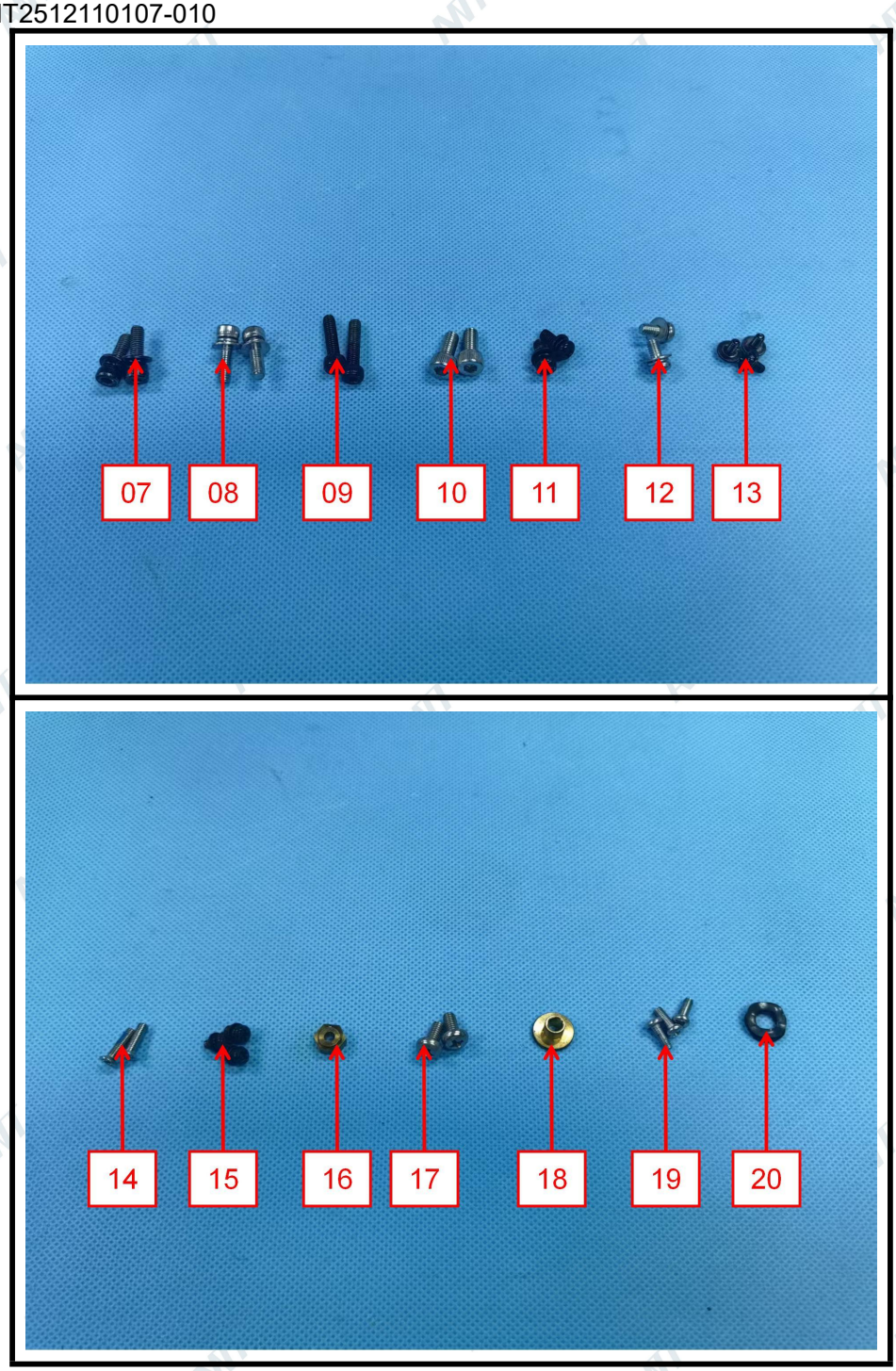
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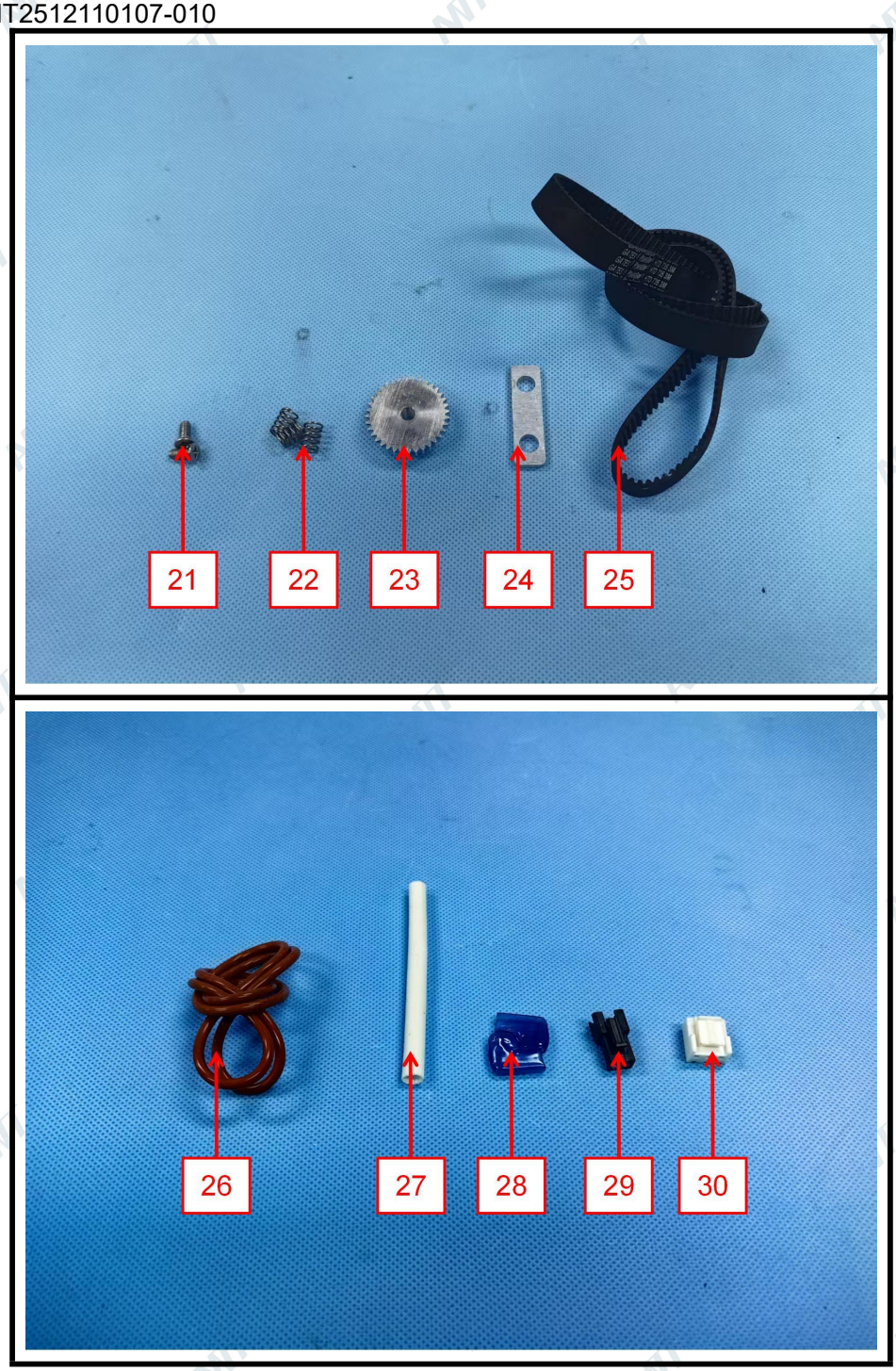
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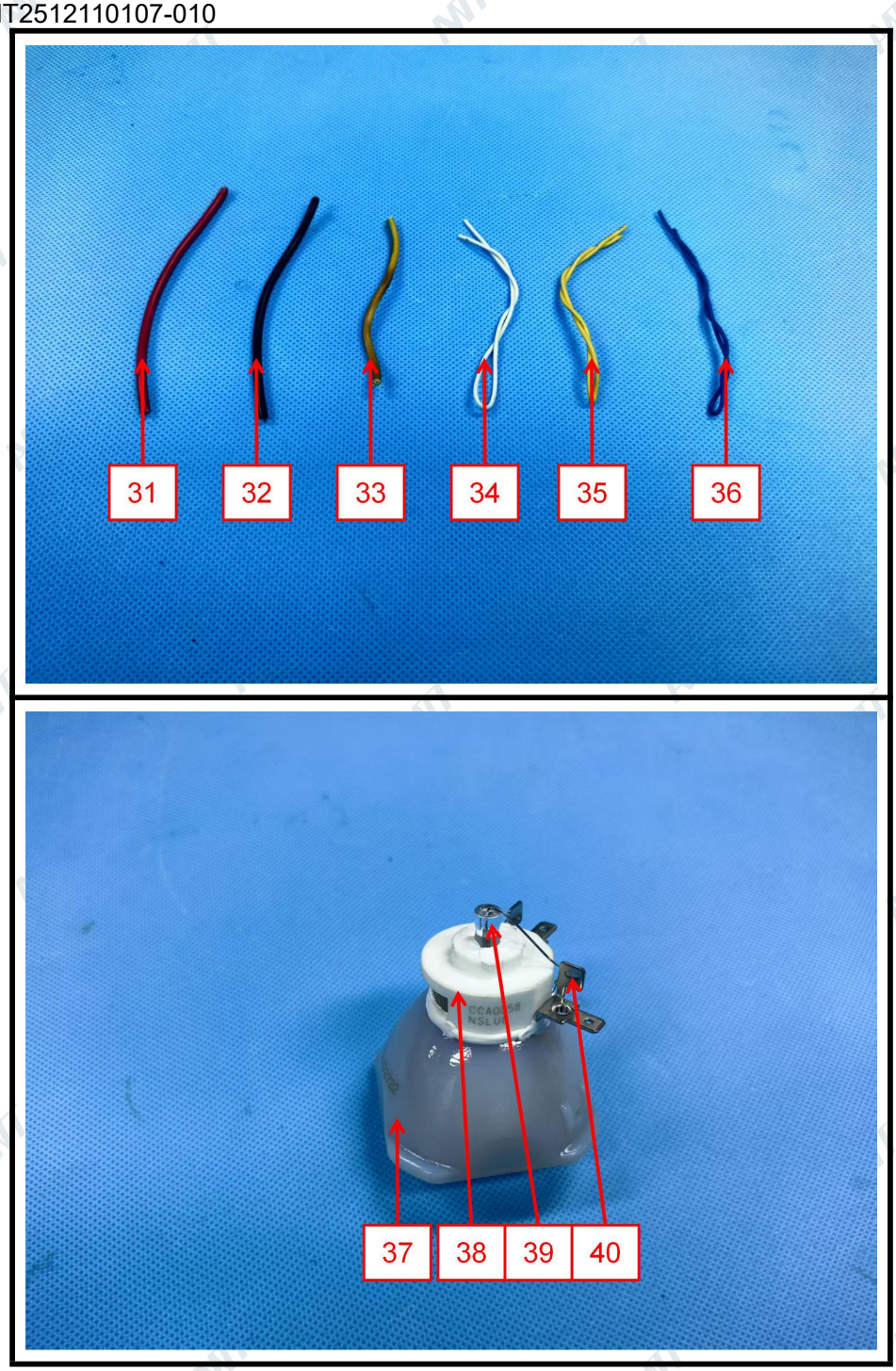
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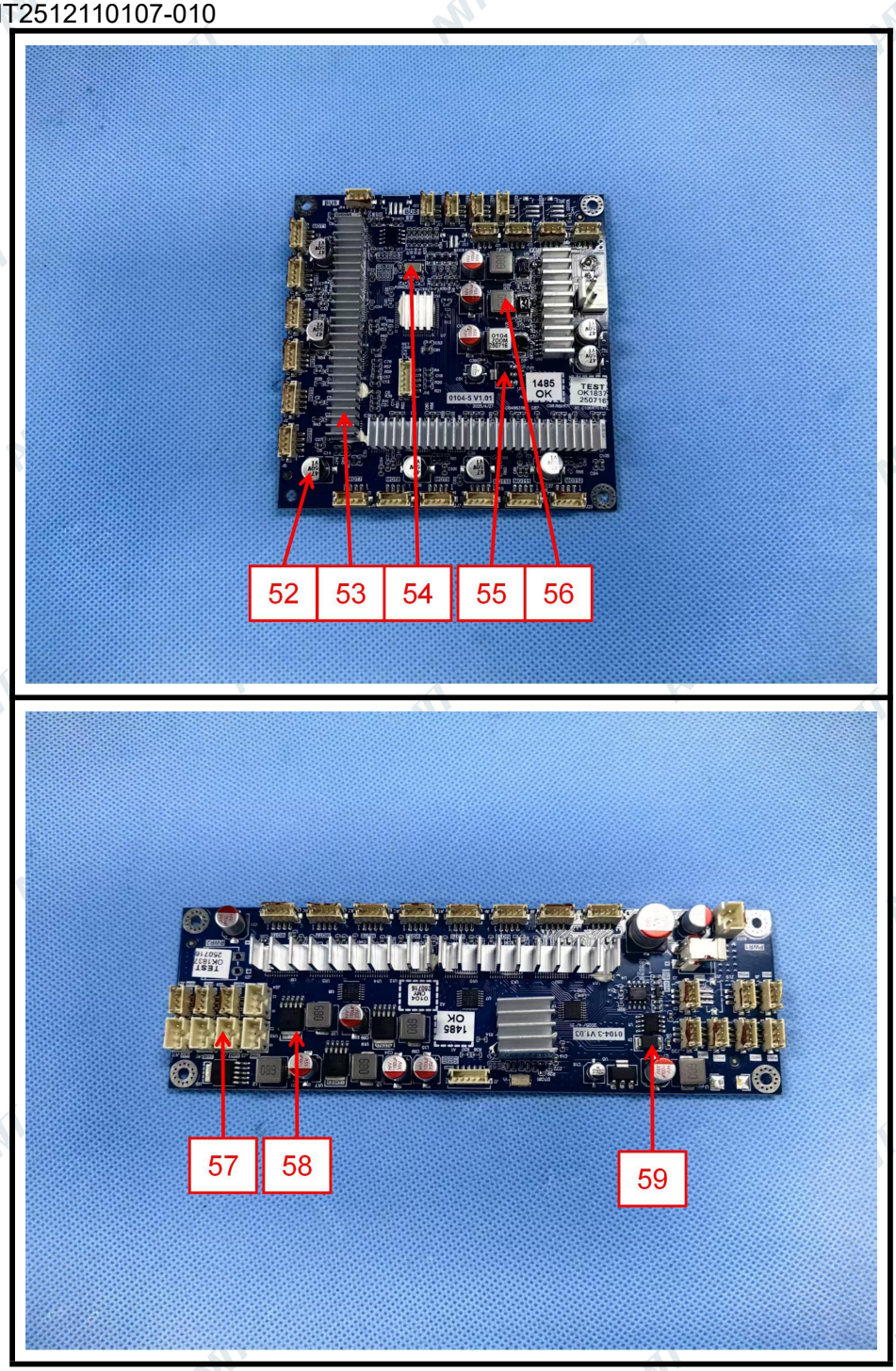
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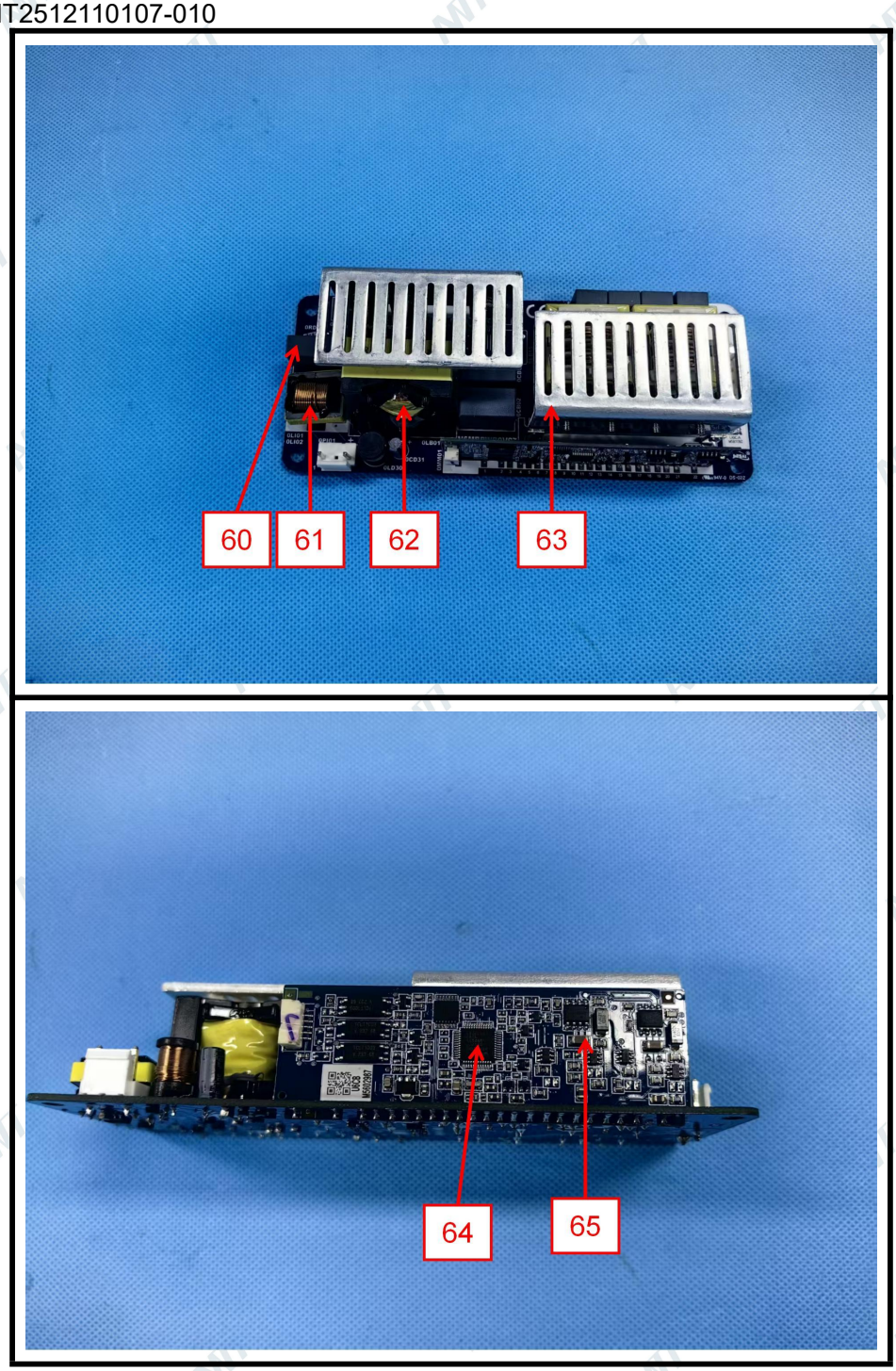
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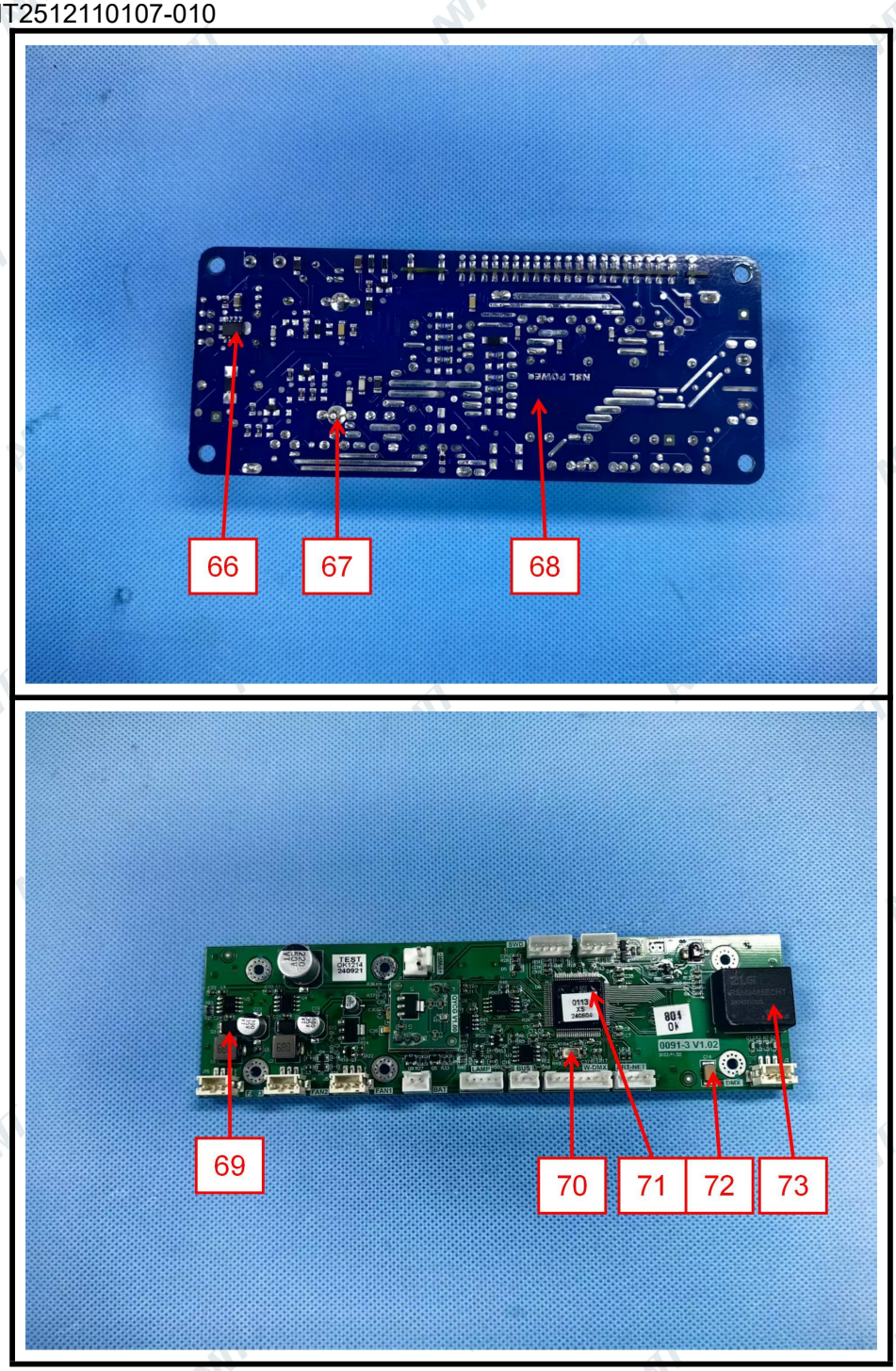
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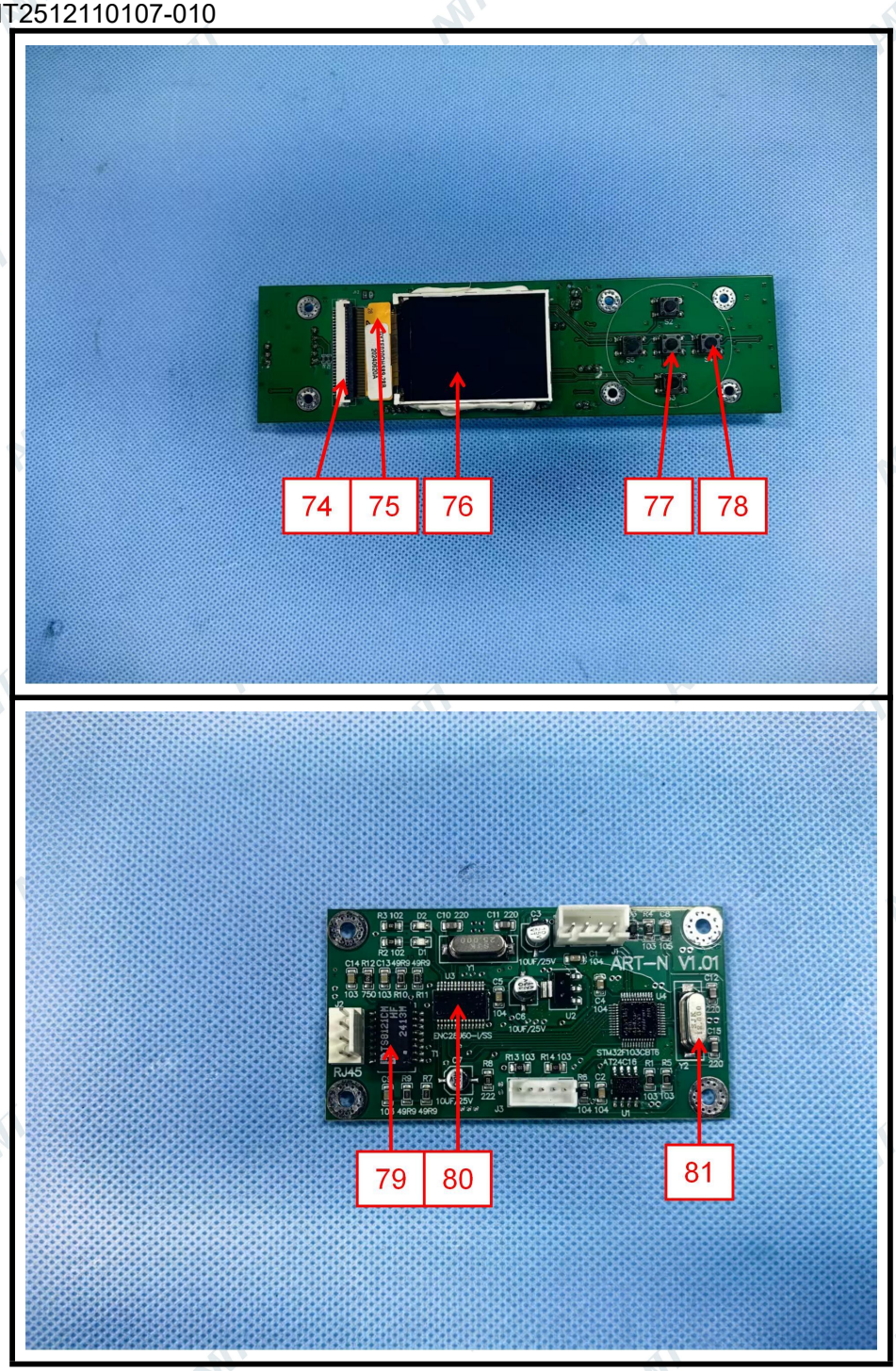
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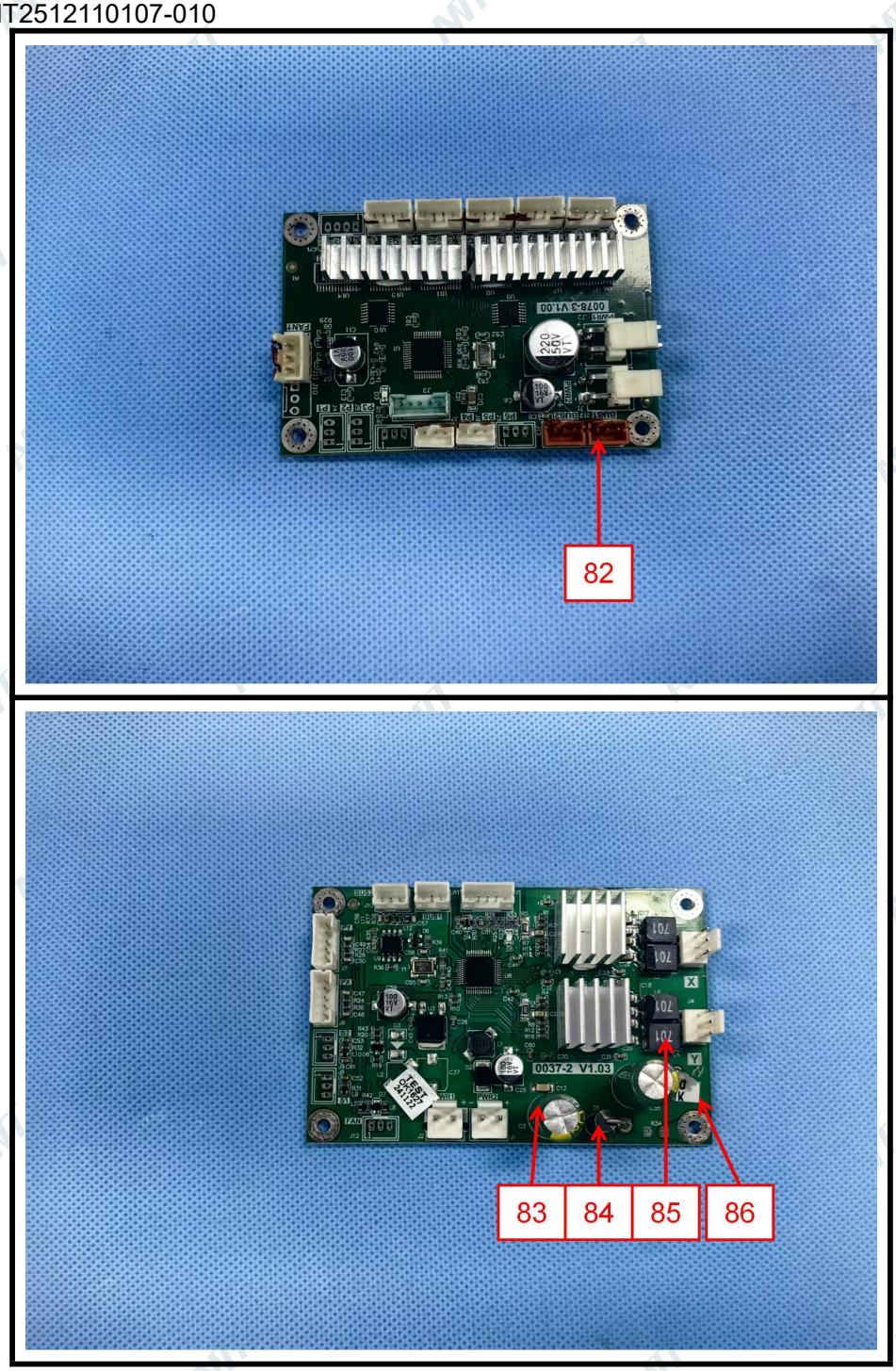
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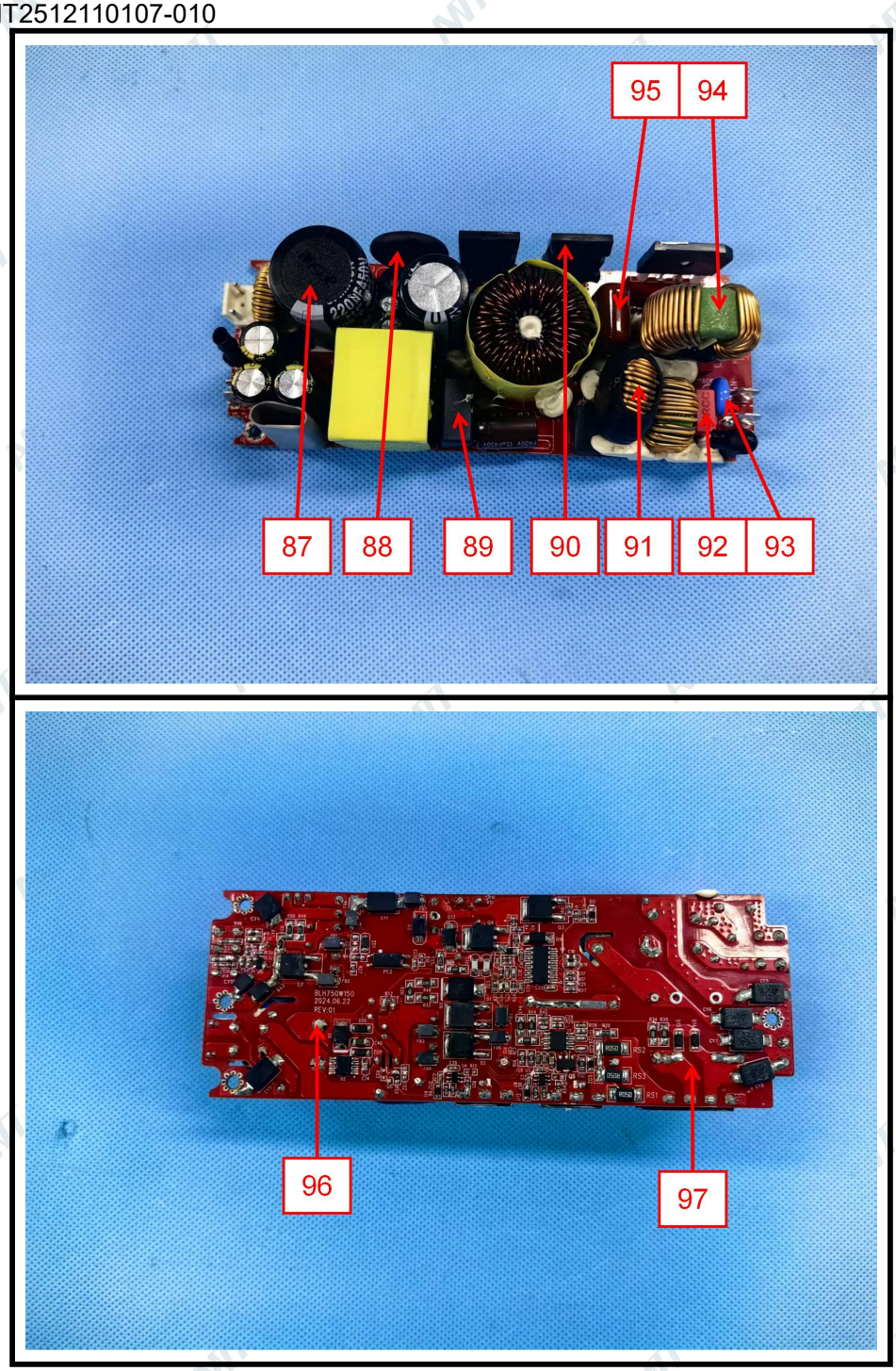

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2. The result(s) shown in this report refer only to the sample(s) tested.
3. Without written approval of ANT, this report can't be reproduced except in full.
4. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which ANT hasn't verified.
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*** End of Report ***