Test Report

Applicant	:	MuChen International Electronic Commerce Co., Ltd.
Address	:	080, 03rd floor, Commercial Complex E, Phase 1, Nahxiang Wanshang (Wuhu) International Trade City,Wuhu District, China (Anhui) Pilot Free Trade Zone
Sample Name	:	Nandme
Style/Item No.	:	NX8000
Reference No.	:	NX8000-W2,NX8000-W12,NX8000-B2,NX8000-B12
Manufacturer	:	MuChen International Electronic Commerce Co., Ltd.
Address	:	080, 03rd floor, Commercial Complex E, Phase 1, Nahxiang Wanshang (Wuhu) International Trade City,Wuhu District, China (Anhui) Pilot Free Trade Zone
Factory	:	Guangdong Roman Technology CO.,Ltd.
Address	:	No.18 Xinguang Road, Jinhe District, Zhangmutou Town, Dongguan City, Guangdong Province, China
Received Date	:	Jun. 09, 2022
Test Period	:	Jun. 09, 2022 ~ Jul. 04, 2022
Test Requested	:	As requested by the client, to evaluate the compliance of the submitted sample with EU RoHS Directive 2011/65/EU Annex II and its amendment (EU) 2015/863 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
Test Method	:	1. Review was performed for the sample and the related Bill of Materials submitted by the Applicant. 2. a) Refer to the standard IEC 62321-3-1:2013: Screening by XRF Spectroscopy. b) Wet chemical test 1) Refer to IEC 62321-5:2013, determine the Cadmium, Lead content by ICP-OES. 2) Refer to IEC 62321-4:2013+A1:2017, determine the Mercury content by ICP-OES; 3) Refer to IEC 62321-7-1:2015 & IEC 62321-7-2:2017, determine the Hexavalent Chromium content by UV-VIS. 4) Refer to IEC 62321-6:2015, determine the Polybrominated Biphenyls and Polybrominated Diphenyl Ethers by GC-MS. 5) Refer to IEC 62321-8:2017, determine the Dibutyl phthalate(DBP), Benzylbutyl phthalate(BBP), Di-2-ethylhexyl phthalate(DEHP) and Diisobutyl phthalate(DIBP) by GC-MS.
Test Results	:	Please refer to next page (s).

Test Report

Conclusion:

Basing on the test results obtained from the homogenous materials, the submitted sample **COMPLIES** with the EU RoHS Directive 2011/65/EU Annex II and its amendment (EU) 2015/863.

Signed for and on behalf of
EMTEK(Dongguan) Co., Ltd.

Prepared by:	Reviewed by:	Approved by:
Wu Jiali, Garli	Li Jiaxin, Nell	Li Wei, Lisa
Report Engineer	Supervisor	Authorized signatory
		Jul. 04, 2022

Test Report

Test Results:

1. Pb, Cd, Hg, Cr^{6+}, PBBs, PBDEs Test Results:

No.	Sample description	Restricted substances	Analytical element	Results of EDXRF(1)	Results of Chemical Testing(2) (mg/kg)	Conclusion	Remark
1	Transparent hard plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
2	White coating	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
3	White hard plastic with gold/white coating	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
4	White soft plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
5	White hard plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					

Test Report

No.	Sample description	Restricted substances	Analytical element	Results of EDXRF(1)	Results of Chemical Testing(2) (mg/kg)	Conclusion	Remark
6	Black soft plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
7	White hard plastic with gold coating	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
8	Grey solid with glue	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
9	Light blue hard plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
10	White soft plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					

Test Report

No.	Sample description	Restricted substances	Analytical element	Results of EDXRF(1)	Results of Chemical Testing(2) (mg/kg)	Conclusion	Remark
11	Silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
12	Green PCB	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	X	ND		
		PBDEs			ND		
13	Black foam with glue	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
14	Orange soft plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
15	White soft plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					

Test Report

No.	Sample description	Restricted substances	Analytical element	Results of EDXRF(1)	Results of Chemical Testing(2) (mg/kg)	Conclusion	Remark
16	White hard plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
17	Silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
18	Silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
19	White hard plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
20	Silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					

Test Report

No.	Sample description	Restricted substances	Analytical element	Results of EDXRF(1)	Results of Chemical Testing(2) (mg/kg)	Conclusion	Remark
21	Silver metal with black coating	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
22	Copper metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
23	Silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
24	Black soft plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
25	Outer ring-silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					

Test Report

No.	Sample description	Restricted substances	Analytical element	Results of EDXRF(1)	Results of Chemical Testing(2) (mg/kg)	Conclusion	Remark
26	Inner ring-silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
27	Oil seal-silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
28	Ball-silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
29	Holder-brown hard plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
30	White hard plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					

Test Report

No.	Sample description	Restricted substances	Analytical element	Results of EDXRF(1)	Results of Chemical Testing(2) (mg/kg)	Conclusion	Remark
31	Silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
32	Magnet-silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
33	White soft plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
34	Solder-silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
35	Transparent glue	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					

Test Report

No.	Sample description	Restricted substances	Analytical element	Results of EDXRF(1)	Results of Chemical Testing(2) (mg/kg)	Conclusion	Remark
36	Button-copper metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
37	Fixed plate-silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
38	Contact plate-silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
39	Contact plate-orange translucent soft plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
40	Black hard plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					

Test Report

No.	Sample description	Restricted substances	Analytical element	Results of EDXRF(1)	Results of Chemical Testing(2) (mg/kg)	Conclusion	Remark
41	Terminal-silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
42	Black foam with glue	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
43	Copper metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
44	Solder-silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
45	SMD IC	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					

Test Report

No.	Sample description	Restricted substances	Analytical element	Results of EDXRF(1)	Results of Chemical Testing(2) (mg/kg)	Conclusion	Remark
46	SMD LED	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
47	Black solid	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
48	Pin-silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
49	SMD resister	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
50	SMD capacitor	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					

Test Report

No.	Sample description	Restricted substances	Analytical element	Results of EDXRF(1)	Results of Chemical Testing(2) (mg/kg)	Conclusion	Remark
51	SMD IC	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
52	SMD triode	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
53	SMD diode	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
54	SMD zener diode	Pb	Pb	OL	Pb:247901	Pass	See remark (3)
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
55	SMD diode	Pb	Pb	OL	Pb:24900	Pass	See remark (3)
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					

Test Report

No.	Sample description	Restricted substances	Analytical element	Results of EDXRF(1)	Results of Chemical Testing(2) (mg/kg)	Conclusion	Remark
56	Transparent hard plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
57	White hard plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
58	White hard plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
59	Blue soft plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
60	White hard plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					

Test Report

No.	Sample description	Restricted substances	Analytical element	Results of EDXRF(1)	Results of Chemical Testing(2) (mg/kg)	Conclusion	Remark
61	White soft plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
62	White soft plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
63	White soft plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
64	Silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
65	White hard plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					

Test Report

No.	Sample description	Restricted substances	Analytical element	Results of EDXRF(1)	Results of Chemical Testing(2) (mg/kg)	Conclusion	Remark
66	White hard plastic with silver coating	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
67	White glue	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
68	Black soft plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
69	White soft plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
70	Silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					

Test Report

No.	Sample description	Restricted substances	Analytical element	Results of EDXRF(1)	Results of Chemical Testing(2) (mg/kg)	Conclusion	Remark
71	Green PCB	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	X	ND		
		PBDEs			ND		
72	Solder-silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
73	Copper metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
74	Grey solid with glue	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
75	SMD resister	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					

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No.	Sample description	Restricted substances	Analytical element	Results of EDXRF(1)	Results of Chemical Testing(2) (mg/kg)	Conclusion	Remark
76	SMD triode	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
77	SMD capacitor	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
78	Black solid	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
79	Pin-silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
80	Copper metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					

Test Report

No.	Sample description	Restricted substances	Analytical element	Results of EDXRF(1)	Results of Chemical Testing(2) (mg/kg)	Conclusion	Remark
81	White hard plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
82	Silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
83	Solder-silver metal	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	NA			
		PBDEs					
84	White hard plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
85	Black soft plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					

Test Report

No.	Sample description	Restricted substances	Analytical element	Results of EDXRF(1)	Results of Chemical Testing(2) (mg/kg)	Conclusion	Remark
86	Red soft plastic	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					

Test Report

Test Results:

2. Phthalates (DBP, BBP, DEHP, DIBP) Test Results:

Test Item	Test Result (mg/kg)				MDL (mg/kg)	Requirement Limit (mg/kg)
	1/2/3	4/5/6	7/8/9	10/12/13		
Dibutyl phthalate(DBP)	ND	ND	ND	ND	30	1000
Benzylbutyl phthalate(BBP)	ND	ND	ND	ND	30	1000
Di-2-ethylhexyl phthalate(DEHP)	ND	ND	ND	ND	30	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	30	1000
Conclusion	Pass	Pass	Pass	Pass	---	---

Test Item	Test Result (mg/kg)				MDL (mg/kg)	Requirement Limit (mg/kg)
	14/15/16	19/24/29	30/33/35	39/40/42		
Dibutyl phthalate(DBP)	ND	ND	ND	ND	30	1000
Benzylbutyl phthalate(BBP)	ND	ND	ND	ND	30	1000
Di-2-ethylhexyl phthalate(DEHP)	ND	ND	ND	ND	30	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	30	1000
Conclusion	Pass	Pass	Pass	Pass	---	---

Test Item	Test Result (mg/kg)				MDL (mg/kg)	Requirement Limit (mg/kg)
	45/46/47	49/50/51	52/53/54	55/56/57		
Dibutyl phthalate(DBP)	ND	ND	ND	ND	30	1000
Benzylbutyl phthalate(BBP)	ND	ND	ND	ND	30	1000
Di-2-ethylhexyl phthalate(DEHP)	ND	ND	ND	ND	30	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	30	1000
Conclusion	Pass	Pass	Pass	Pass	---	---

Test Item	Test Result (mg/kg)				MDL (mg/kg)	Requirement Limit (mg/kg)
	58/59/60	61/62/63	65/66/67	68/69/71		
Dibutyl phthalate(DBP)	ND	ND	ND	ND	30	1000
Benzylbutyl phthalate(BBP)	ND	ND	ND	ND	30	1000
Di-2-ethylhexyl phthalate(DEHP)	ND	ND	ND	ND	30	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	30	1000
Conclusion	Pass	Pass	Pass	Pass	---	---

Test Report

Test Results:

2. Phthalates (DBP, BBP, DEHP, DIBP) Test Results:

Test Item	Test Result (mg/kg)			MDL (mg/kg)	Requirement Limit (mg/kg)
	74/75/76	77/78/81	84/85/86		
Dibutyl phthalate(DBP)	ND	ND	ND	30	1000
Benzylbutyl phthalate(BBP)	ND	ND	ND	30	1000
Di-2-ethylhexyl phthalate(DEHP)	ND	ND	ND	30	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	30	1000
Conclusion	Pass	Pass	Pass	---	---

Note: mg/kg = parts per million = ppm ND = Not Detected (less than MDL) MDL = Method Detection Limit

Test Report

Test Materials List:

Item No.	Description
1	Transparent hard plastic
2	White coating
3	White hard plastic with gold/white coating
4	White soft plastic
5	White hard plastic
6	Black soft plastic
7	White hard plastic with gold coating
8	Grey solid with glue
9	Light blue hard plastic
10	White soft plastic
12	Green PCB
13	Black foam with glue
14	Orange soft plastic
15	White soft plastic
16	White hard plastic
19	White hard plastic
24	Black soft plastic
29	Holder-brown hard plastic
30	White hard plastic
33	White soft plastic
35	Transparent glue
39	Contact plate-orange translucent soft plastic
40	Black hard plastic
42	Black foam with glue
45	SMD IC
46	SMD LED
47	Black solid
49	SMD resister
50	SMD capacitor

Test Report

Item No.	Description
51	SMD IC
52	SMD triode
53	SMD diode
54	SMD zener diode
55	SMD diode
56	Transparent hard plastic
57	White hard plastic
58	White hard plastic
59	Blue soft plastic
60	White hard plastic
61	White soft plastic
62	White soft plastic
63	White soft plastic
65	White hard plastic
66	White hard plastic with silver coating
67	White glue
68	Black soft plastic
69	White soft plastic
71	Green PCB
74	Grey solid with glue
75	SMD resister
76	SMD triode
77	SMD capacitor
78	Black solid
81	White hard plastic
84	White hard plastic
85	Black soft plastic
86	Red soft plastic

Note: As specified by the client, the samples were subjected to mixed testing.

Test Report

Remark: (1) ① Results are obtained by XRF for primary screening, and further wet chemical testing by ICP-OES / AAS (for Cd, Pb, Hg), UV-VIS (for Cr(VI)) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if an inconclusive result was found (as "X" in below table) (unit: mg/kg).

② OL = Over Limit, BL = Below Limit, X = Inconclusive, NA= Not Applicable.

③ XRF screening test for RoHS elements – The test result may be different from the actual content in the non-uniformity composition sample.

Element	Polymer	Metal	Composite Materials
Cd	BL ≤(70-3σ)< X <(130+3σ) ≤ OL	BL ≤(70-3σ)< X <(130+3σ) ≤ OL	LOD < X <(150+3σ)≤ OL
Pb	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(500-3σ)< X <(1500+3σ)≤ OL
Hg	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(500-3σ)< X <(1500+3σ)≤ OL
Br	BL ≤ (300-3σ)< X	NA	BL ≤ (250-3σ)< X
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< X

(2) ① mg/kg = ppm = 0.0001%, ND = Not Detected (less than MDL), MDL = Method Detection Limit.

② Unit, Method Detection Limit (MDL) and Requirement limit in wet chemical test.

Test items	Pb	Cd	Hg	Cr^{6+}(Non-metal)	Cr^{6+}(metal)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	2	2	2	8	---	5	5
Requirement Limit	1000	100	1000	1000	Negative	1000	1000

③ According to IEC 62321-7-1:2015, result on Cr^{6+} for metal sample shall be shown as Positive/Negative.

a) The Cr(VI) concentration is more than 0.13 μg/cm^2, the sample is positive for Cr(VI), the coating is considered to contain Cr(VI).

b) The Cr(VI) concentration is less than 0.10 μg/cm^2, the sample is negative for Cr(VI), the coating is considered a non-Cr(VI) based coating.

Storage condition and production date of the tested sample are unavailable and thus results of Cr^{6+} represent status of the sample at the time of testing.

④ According to IEC 62321-3-1:2013, this column represents the results of wet chem test. And "NA" means no need to perform wet chem test, when the XRF screening results are acceptable.

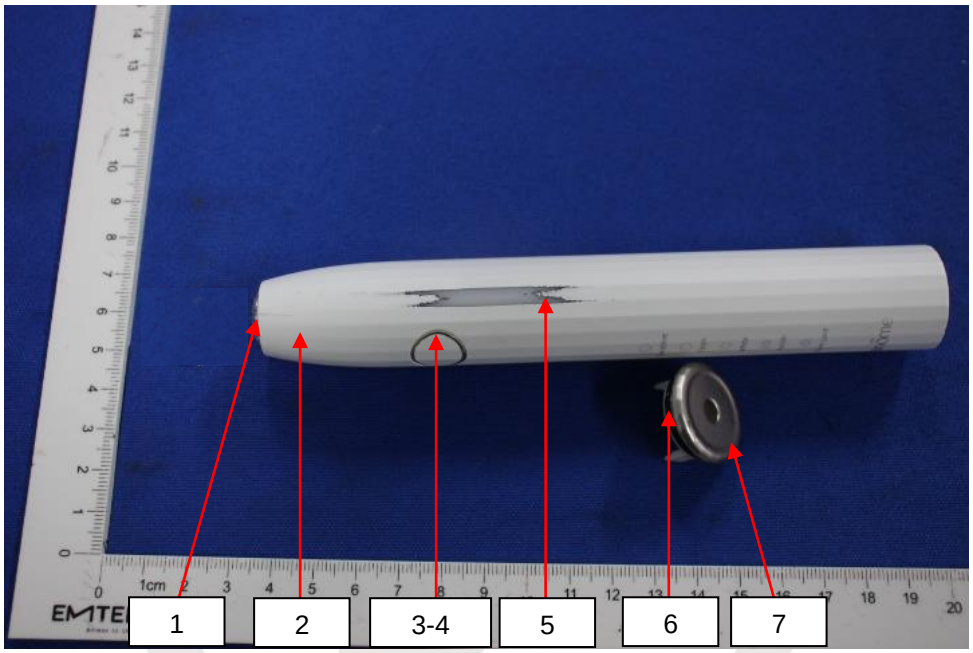
(3) As declared by the client, No.54,55 the materials should be exempted for lead content requirement according to Annex clause 7(c)-I.

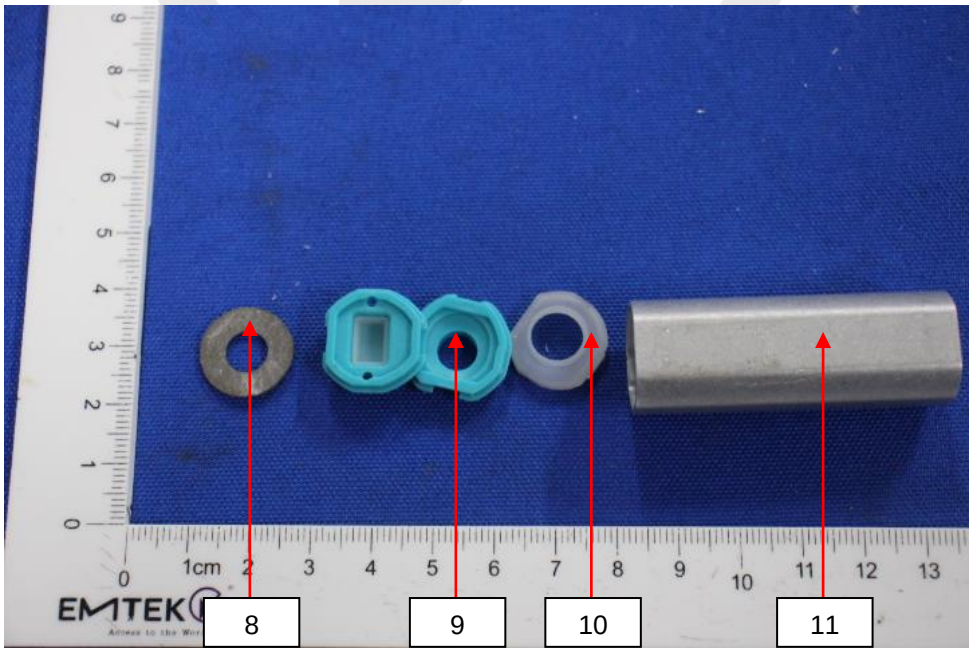
Test Report

Sample Photo

Test Report

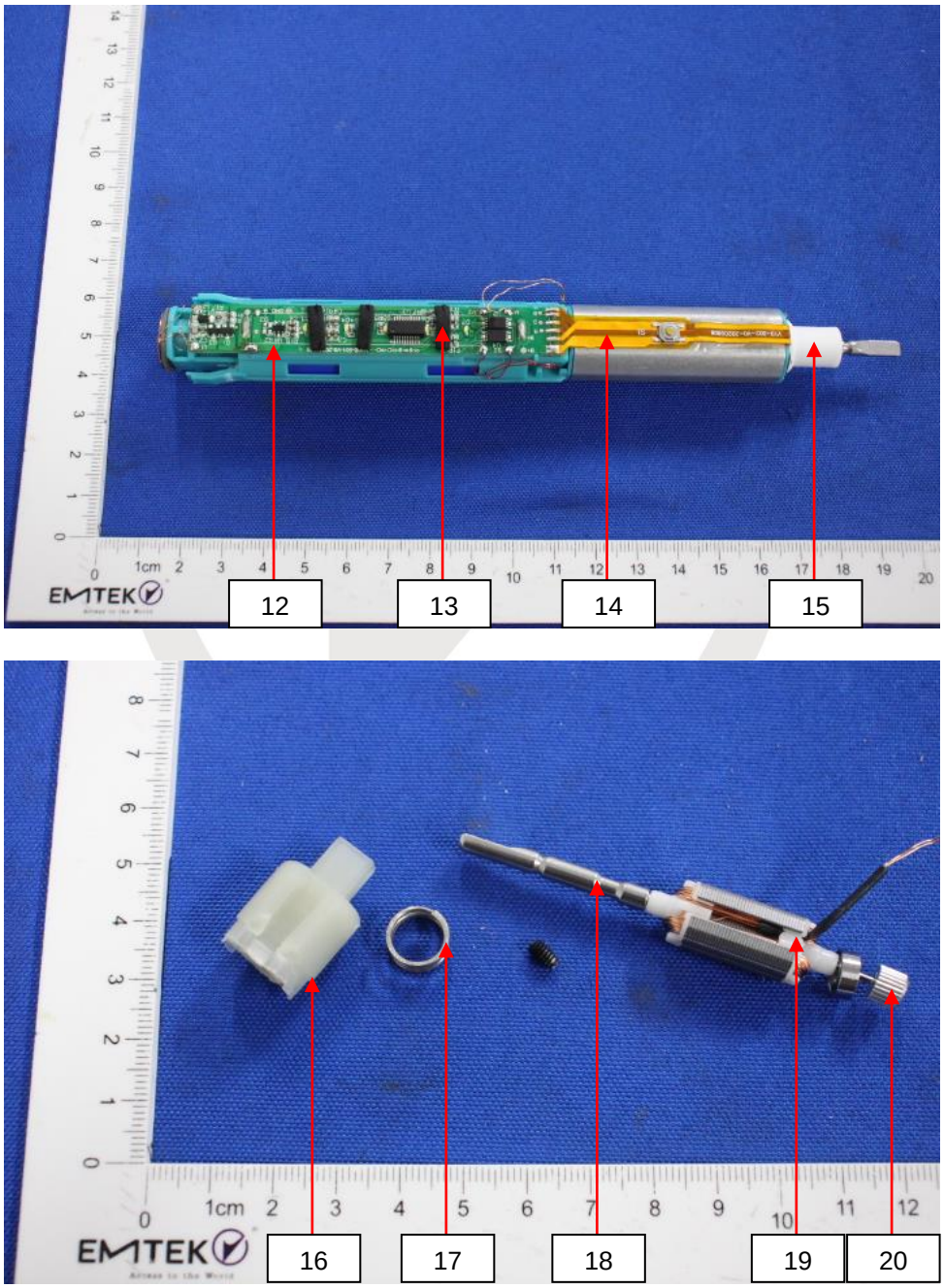
Sample Photo





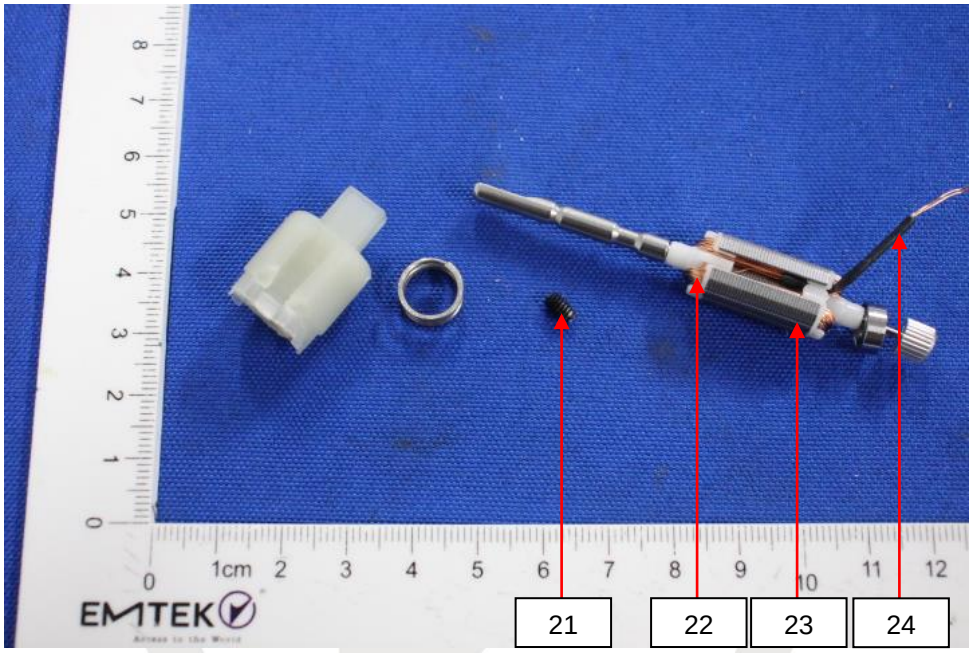
Test Report

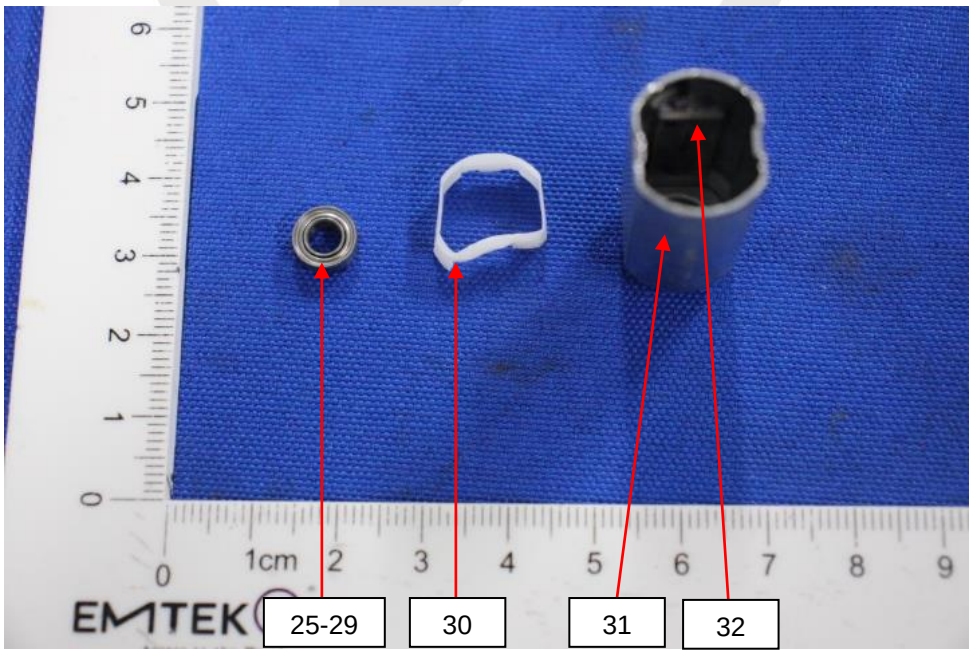
Sample Photo



Test Report

Sample Photo





Test Report

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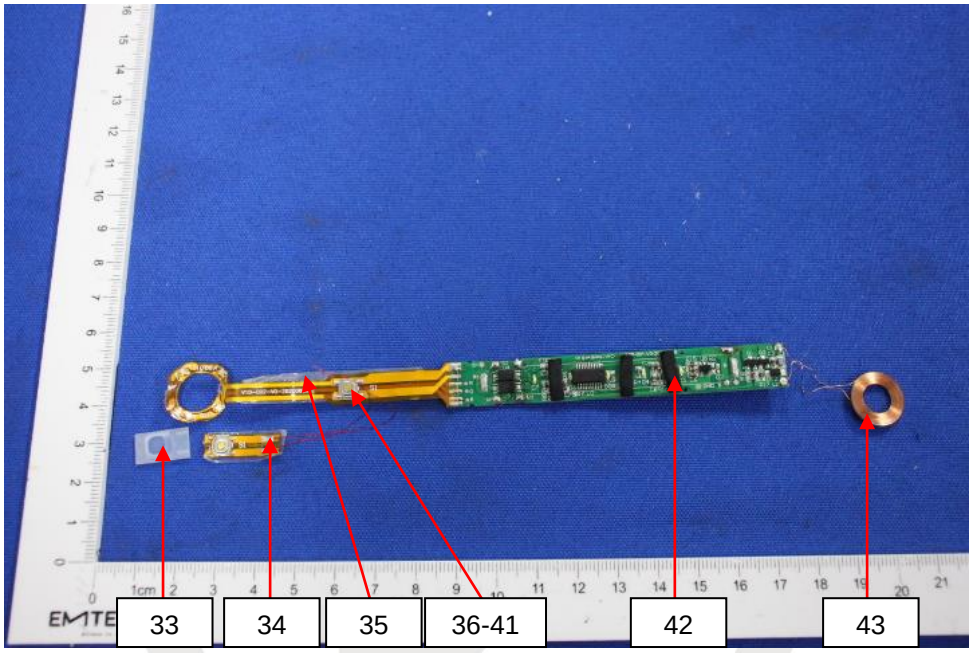

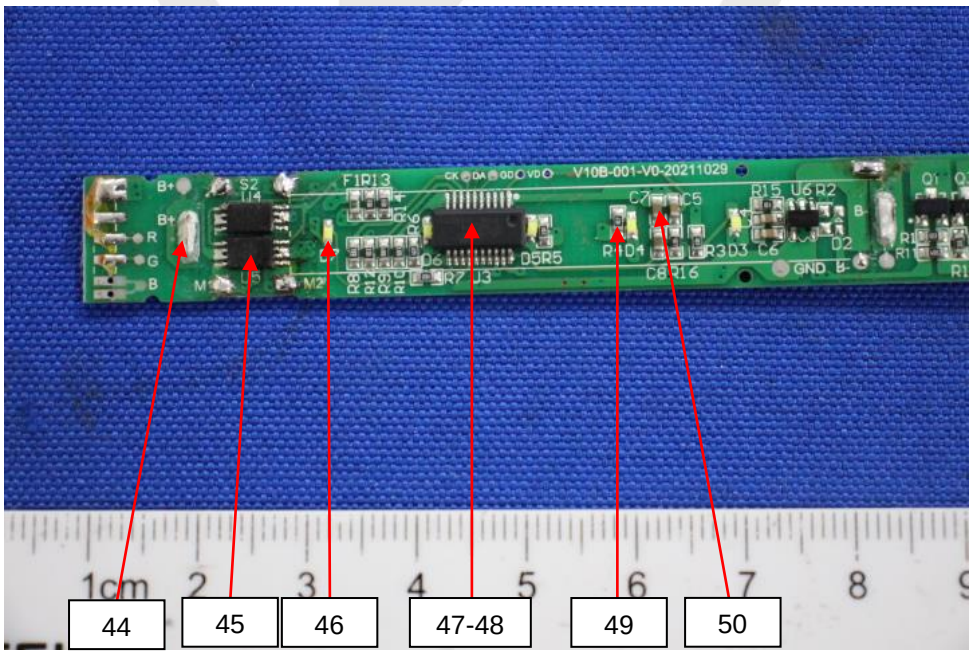

Test Report

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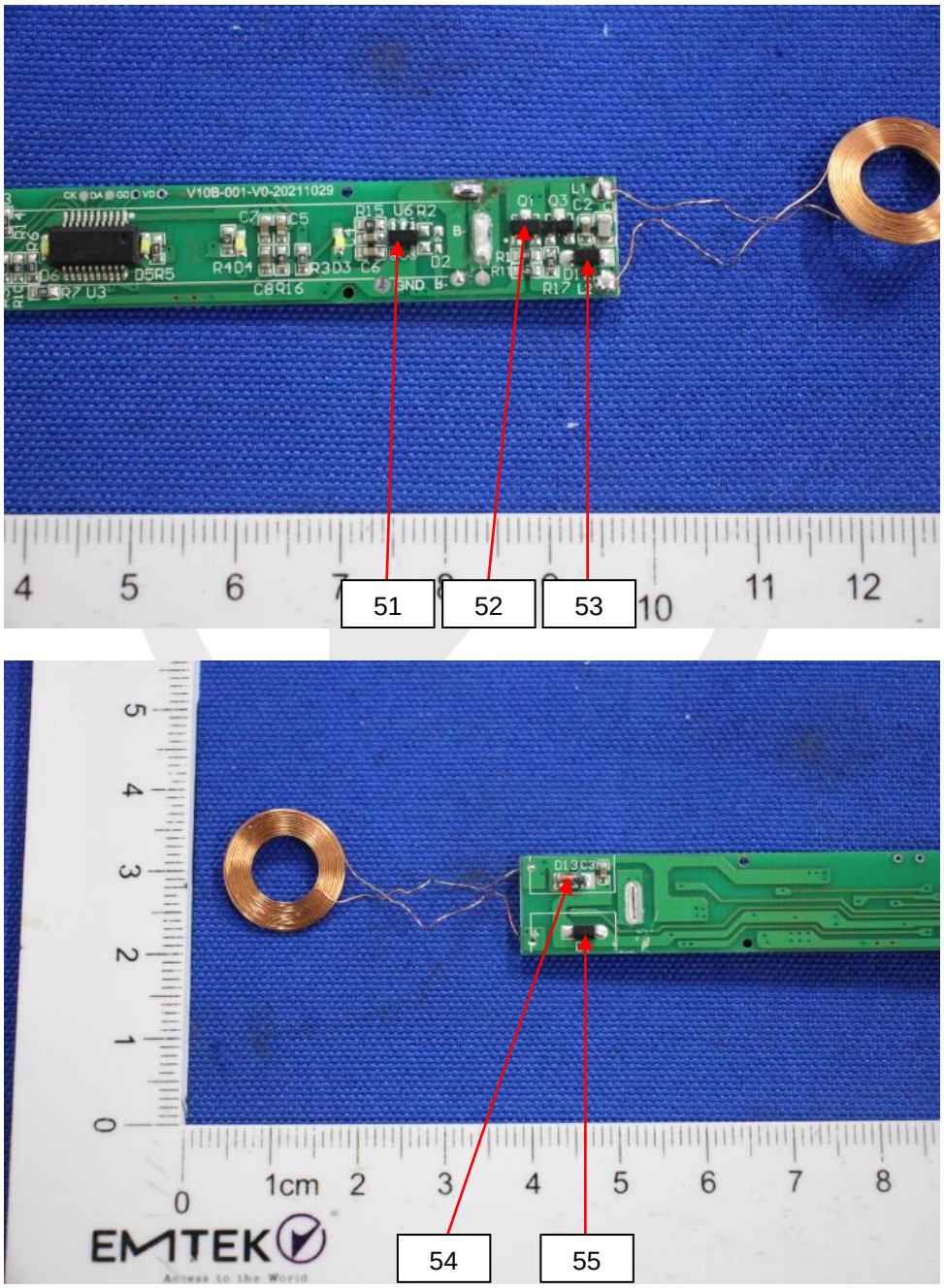

Test Report

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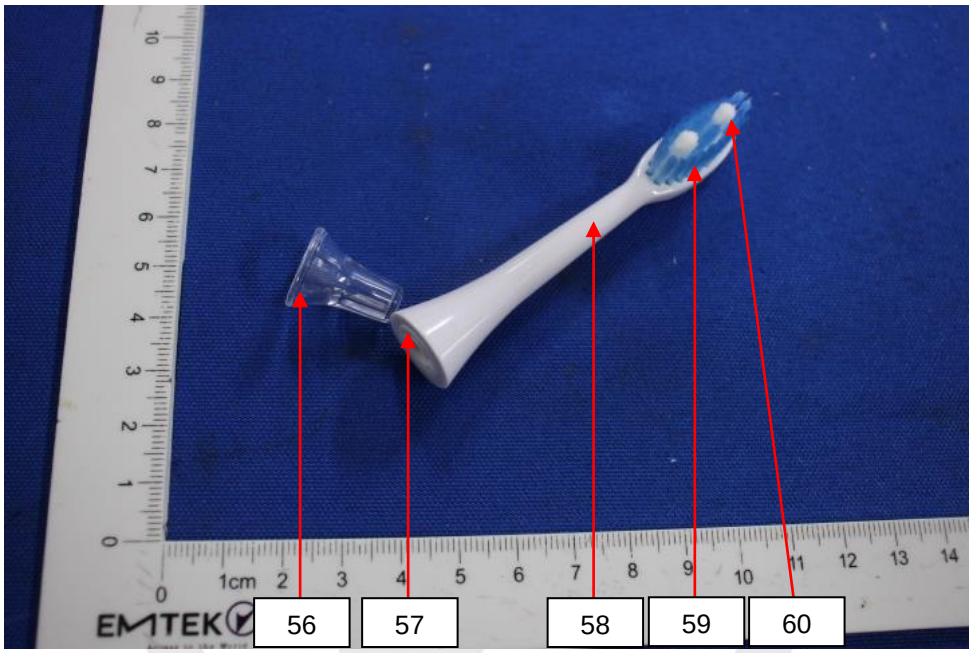
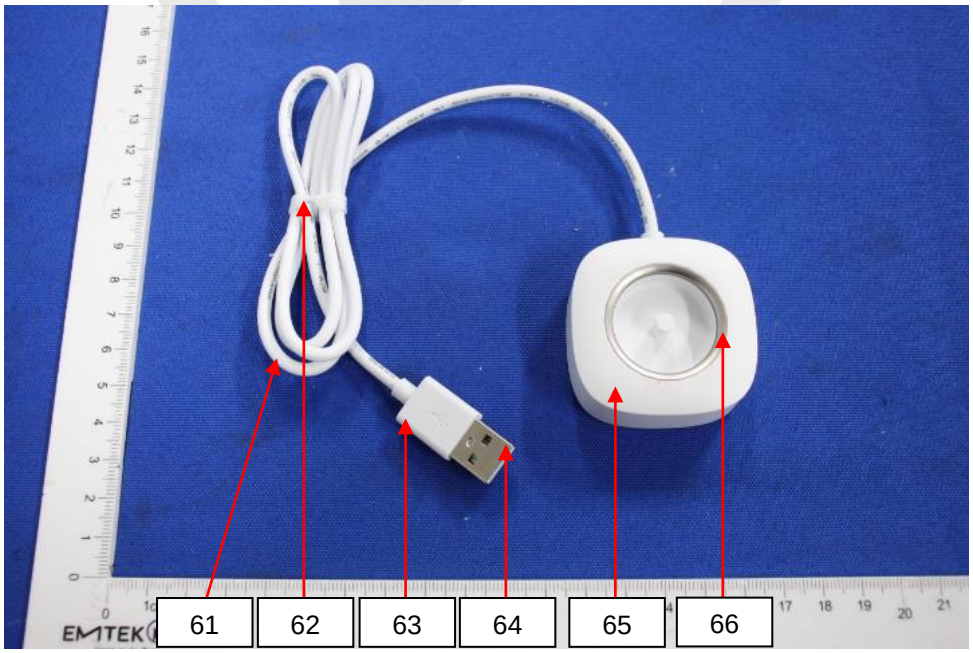
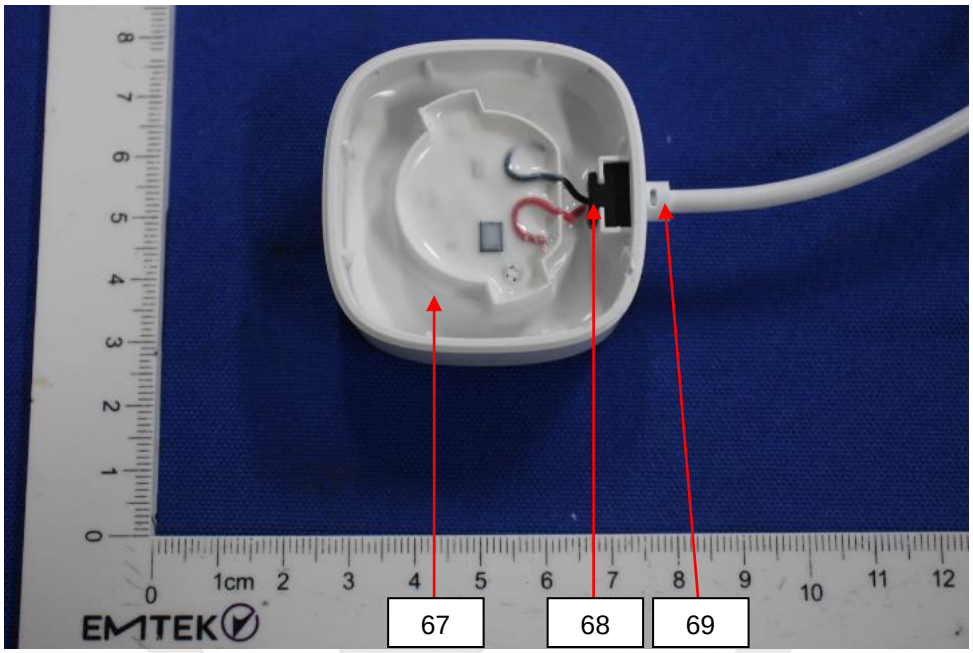
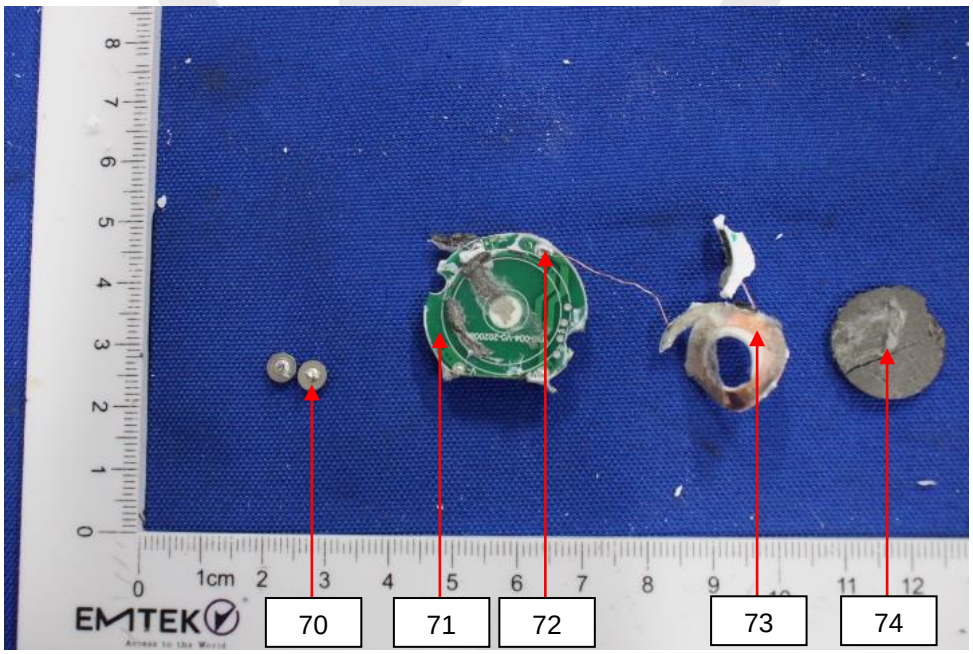




Test Report

Sample Photo





Test Report

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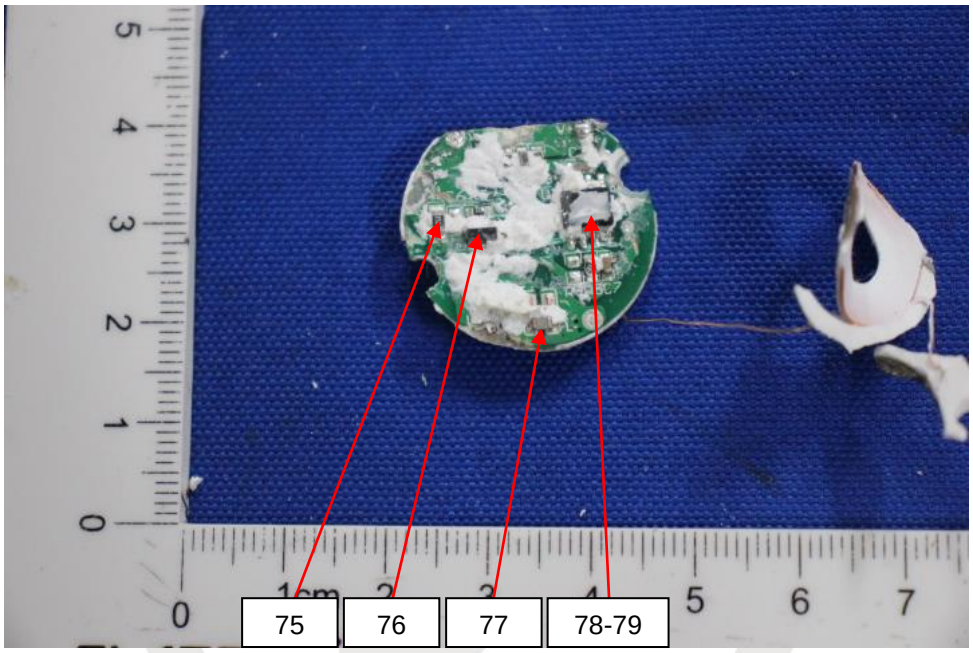

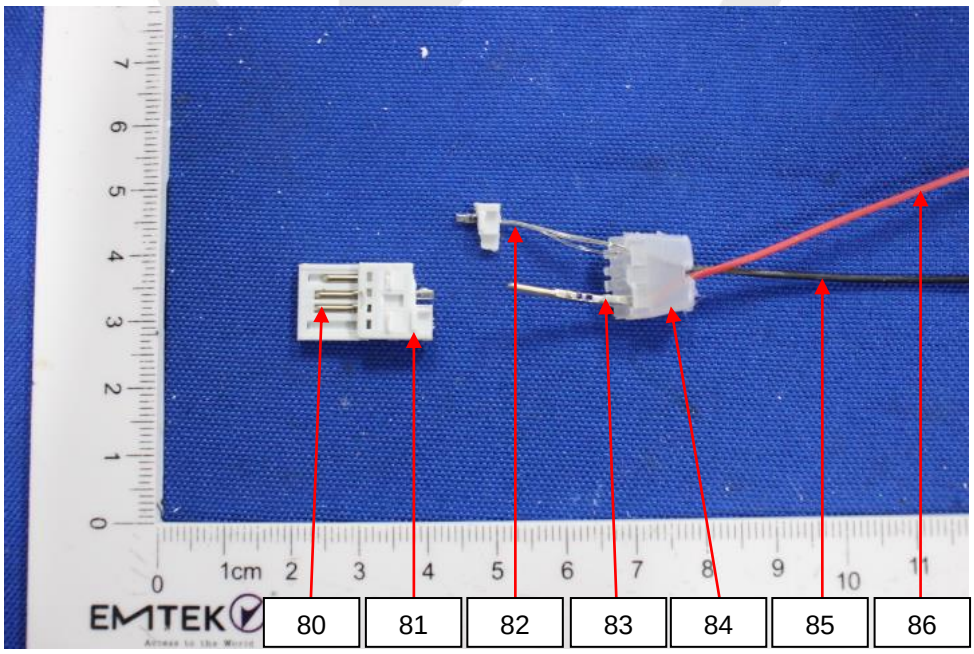

*** End of Report ***

Test Report

ANNEX

EXEMPTION LIST

1	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):
1(a)	For general lighting purposes < 30W: 5mg (expires on 31 December 2011; 3.5mg may be used per burner after 31 December 2011 until 31 December 2012; 2.5mg shall be used per burner after 31 December 2012)
1(b)	For general lighting purposes ≥ 30W and <50W: 5mg (expires on 31 December 2011; 3.5mg may be used per burner after 31 December 2011)
1(c)	For general lighting purposes ≥ 50W and <150W: 5mg
1(d)	For general lighting purposes ≥ 150W: 15mg
1(e)	For general lighting purposes with circular or square structural shape and tube diameter ≤17mm (no limitation of use until 31 December 2011; 7mg may be used per burner after 31 December 2011)
1(f)	For special purposes: 5mg
1(g)	For general lighting purposes < 30 W with a lifetime equal or above 20 000 h: 3,5 mg (Expires on 31 December 2017)
2(a)	Mercury in double-capped linear fluorescent lamps for general lighting purples not exceeding (per lamp):
2(a)(1)	Tri-band phosphor with normal lifetime and a tube diameter < 9mm (e.g. T2): 5mg (expires on 31 December 2011; 4mg may be used per lamp after 31 December 2011)
2(a)(2)	Tri-band phosphor with normal lifetime and a tube diameter ≥ 9mm and ≤ 17mm (e.g. T5): 5mg (expires on 31 December 2011; 3mg may be used per lamp after 31 December 2011)
2(a)(3)	Tri-band phosphor with normal lifetime and a tube diameter > 17mm and ≤ 28mm (e.g. T8): 5mg (expires on 31 December 2011; 3.5mg may be used per lamp after 31 December 2011)
2(a)(4)	Tri-band phosphor with normal lifetime and a tube diameter > 28mm (e.g. T12): 5mg (expires on 31 December 2012; 3.5mg may be used per lamp after 31 December 2012)
2(a)(5)	Tri-band phosphor with long lifetime (≥ 25000h): 8mg (expires on 31 December 2011; 5mg may be used per lamp after 31 December 2011)
2(b)	Mercury in other fluorescent lamps not exceeding (per lamp):
2(b)(2)	Non-linear halophosphate lamps (all diameters): 15mg (expires on 13 April 2016)
2(b)(3)	Non-linear tri-band phosphor lamps with tube diameter > 17mm (e.g. T9) (no limitation of use until 31 December 2011; 15mg may be used per lamp after 31 December 2011)
2(b)(4)	Lamps for other general lighting and special purposes (e.g. induction lamps) (no limitation of use until 31 December 2011; 15mg may be used per lamp after 31 December 2011)
3	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp):
3(a)	Short length (≤ 500mm) (No limitation of use until 31 December 2011; 3.5mg may be used per lamp after 31 December 2011)
3(b)	Medium length (> 500m and ≤ 1500mm) (No limitation of use until 31 December 2011; 5mg may be used per lamp after 31 December 2011)
3(c)	Long length (> 1500mm) (No limitation of use until 31 December 2011; 13mg may be used per lamp after 31 December 2011)
4(a)	Mercury in other low pressure discharge lamps (per lamp) (no limitation of use until 31 December 2011; 15mg may be used per lamp after 31 December 2011)
4(b)	Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60:
4(b)-I	P ≤ 155W (no limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011)
4(b)-II	155W < P ≤ 405W (no limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011)
4(b)-III	P > 405W (no limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011)
4(c)	Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):
4(c)-I	P≤ 155W (no limitation of use until 31 December 2011; 25mg may be used per burner after 31 December 2011)
4(c)-II	155W < P ≤405W (no limitation of use until 31 December 2011; 30mg may be used per burner after 31 December 2011)
4(c)-III	P > 405W (no limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011)
4(d)	Mercury in High Pressure Mercury (vapour) lamps (HPMV) (expires on 13 April 2015)
4(e)	Mercury in metal halide lamps (MH)
4(f)	Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex
4(g)	Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and light-artwork, where the mercury content shall be limited as follows: (Expires on 31 December 2018)
	(a) 20 mg per electrode pair + 0,3 mg per tube length in cm, but not more than 80 mg, for outdoor applications and indoor applications exposed to temperatures below 20 °C;
	(b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications.

Test Report

ANNEX

EXEMPTION LIST

Continued

5(a)	Lead in glass of cathode ray tubes
5(b)	Lead in glass of fluorescent tubes not exceeding 0.2% by weight
6(a)	Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight
6(b)	Lead as an alloying element in aluminium containing up to 0.4% lead by weight
6(c)	Copper alloy containing up to 4% lead by weight.
7(a)	Lead in high melting temperature type solders (i.e. lead based alloys containing 85% by weight or more lead)
7(b)	Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications
7(c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound
7(c)-II	Lead in dielectric ceramic in capacitors for a rated voltage of 125V AC or 250V DC or higher
7(c)-III	Lead in dielectric ceramic in capacitors for a rated voltage of less than 125V AC or 250V DC (expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013).
7(c)-IV	Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors
8(a)	Cadmium and its compounds in one shot pellet type thermal cut-offs (expires on 1 January 2012 and after that date may be used in spare parts for EEE placed on the market before 1 January 2012)
8(b)	Cadmium and its compounds in electrical contacts Applies to categories 8, 9 and 11 and expires on: — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; — 21 July 2023 for category 8 in vitro diagnostic medical devices; — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11
8(b)-I	Cadmium and its compounds in electrical contacts used in: Applies to categories 1 to 7 and 10 and expires on 21 July 2021. — circuit breakers, — thermal sensing controls, — thermal motor protectors (excluding hermetic thermal motor protectors), — AC switches rated at:— 6 A and more at 250 V AC and more, or — 12 A and more at 125 V AC and more, — DC switches rated at 20 A and more at 18 V DC and more, and — switches for use at voltage supply frequency ≥ 200 Hz.
9	Hexavalent chromium as an anti-corrosion agent of the carbon steel cooling system in absorption refrigerators up to 0.75% by weight in the cooling solution
9(b)	Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications
11(b)	Lead used in other than C-press compliant pin connector systems (expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013)
13(a)	Lead in white glasses used for optical applications
13(b)	Cadmium and lead in filter glasses and glasses used for reflectance standards
14	Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80% and less than 85% by weight (expires on 1 January 2011 and after that date may be used in spare parts for EEE placed on the market before 1 January 2011)
15	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages
17	Lead halide as radiant agent in High Intensity Discharge (HID) lamps used for professional reprography applications
18(b)	Lead as activator in the fluorescent powder (1% lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP ($BaSi_2O_5$:Pb)
21	Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glass
24	Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors
25	Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring
29	Lead bound in crystal glass as defined in Annex 1 (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC
30	Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more

Test Report

ANNEX

EXEMPTION LIST

Continued

31 Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting)

32 Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes

33 Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers

34 Lead in cermet-based trimmer potentiometer elements

37 Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body

38 Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide

39 Cadmium in colour converting II-VI LEDs (< 10 µg Cd per mm^2 of light- emitting area) for use in solid state illumination or display systems (expires on 1 July 2014)

41 Lead in solders and termination finishes of electrical and electronic components and finishes of printed circuit boards used in ignition modules and other electrical and electronic engine control systems, which for technical reasons must be mounted directly on or in the crankcase or cylinder of hand-held combustion engines (classes SH:1, SH:2, SH:3 of Directive 97/68/EC of the European Parliament and of the Council (2)) (Expires on 31 December 2018)

43 Bis(2-ethylhexyl) phthalate in rubber components in engine systems, designed for use in equipment that is not intended solely for consumer use and provided that no plasticised material comes into contact with human mucous membranes or into prolonged contact with human skin and concentration value of bis(2-ethylhexyl) phthalate does not exceed:

a) 30% by weight of the rubber for
   (i) gasket coatings;
   (ii) solid-rubber gaskets; or
   (iii) rubber components included in assemblies of at least three components using electrical, mechanical or hydraulic energy to do work, and attached to the engine.

b) 10% by weight of the rubber for rubber-containing components not referred to in point (a).

For the purposes of this entry, “prolonged contact with human skin” means continuous contact of more than 10 minutes duration or intermittent contact over a period of 30 minutes, per day.

44 Lead in solder of sensors, actuators, and engine control units of combustion engines within the scope of Regulation (EU) 2016/1628 of the European Parliament and of the Council, installed in equipment used at fixed positions while in operation which is designed for professionals, but also used by non-professional users.

Test Report

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EMTEK(Dongguan) Co., Ltd. 邮箱：E-mail: project@emtek.com.cn
Add: -1&2/F .,Building 2,Zone A,Zhongda Marine Biotechnology Research and Development Base ,No.9, Xincheng Avenue,Songshanhu High-technology Industrial Development Zone,Dongguan, Guangdong,China Http://www.emtek.com.cn E-mail: project@emtek.com.cn

签发测试报告条款
Conditions of Issuance of Test Reports

1. 东莞市信测科技有限公司（以下简称[本公司]）为提供符合下述条款的测试和报告，而接受有关样品和货品。本公司基于下述条款提供服务，下述条款为本公司与申请服务的个人，企业或公司（以下简称[客户]）的协议。
All samples and goods are accepted by the EMTEK(Dongguan) Co., Ltd. (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the “Clients”).

2. 由此测试申请所发出的任何报告（以下简称[报告]），本公司会严格为客户保密。未经本公司的书面同意，报告的整体或部分不得复制，也不得用于广告或授权的其他用途。然而，客户可以将本公司印制的报告或认可的副本，向其客户、供货商或直接相关的其他人出示或提交。除非相关政府部门、法律或法规要求，否则未经客户同意，本公司不得将报告内容向任何第三方讨论或披露。
Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

3. 除非相关政府部门、法律或法院要求，否则未经公司预先书面同意，本公司毋需，也并无义务到法院对有关报告作证。
The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4. 如果本公司确定报告被不当地使用，本公司保留撤回报告的权利，并有权要求其它适当的额外赔偿。
In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

5. 本公司接受样品进行测试的前提是，该测试报告不能作为针对本公司法律行动的依据。
Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

6. 如因使用本公司中心任何报告内的资料，或任何传播信息所描述与之有关的测试或研究导致的任何损失或损害，本公司概不负责。
The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

7. 若需要在法院审理程序或者仲裁过程中使用测试报告，客户必须在提交测试样品前将该意图告知本公司。
Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

8. 该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的，检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限，数据和信息将被处理掉。任何情况下，本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害，本公司在任何情况下也不必承担任何损害，包括（但不限于）补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权（包括疏忽）、产品责任或其他原因的惩罚性损害。
Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of ten years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

东莞市信测科技有限公司 / EMTEK(Dongguan) Co., Ltd.
地址：广东省东莞市松山湖高新技术产业开发区新城大道9号中大海洋生物科技研发基地A区2号办公楼负一层、第二层 网址：Http://www.emtek.com.cn
邮箱：E-mail: project@emtek.com.cn
Add: -1&2/F .,Building 2,Zone A,Zhongda Marine Biotechnology Research and Development Base ,No.9, Xincheng Avenue,Songshanhu High-technology Industrial Development Zone,Dongguan, Guangdong,China Http://www.emtek.com.cn E-mail: project@emtek.com.cn