

TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 1 of 40

Applicant : UNI-TREND TECHNOLOGY (CHINA) CO.,LTD
Address : NO.6, GONG YE BEI 1ST ROAD, SONGSHAN LAKE NATIONAL HIGH-TECH INDUSTRIAL DEVELOPMENT ZONE, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

Sample Name : Tone and Probe
Style/Item No. : UT682D
Factory/Manufacturer : Uni-Trend Technology (China) Co.,Ltd
Address : No.6, Gong Ye Bei 1st Road, Songshan Lake National High-Tech Industrial Development Zone, Dongguan City, Guangdong Province, China

Trade Mark : UNI-T
Sample Received Date : May 09, 2018
Testing Completed Date : June 29, 2018

Test Requested : As requested by client, to evaluate the compliance of the submitted sample with the Directive 2011/65/EU and amendment directive 2015/863/EU of the European Parliament and of the Council of 8 June 2011 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 Material submitted by the Applicant.
2. a) To refer to the standard IEC 62321-3-1:2013: Screening by XRF Spectroscopy.
b) Wet chemical test
1) to refer to IEC 62321-5: 2013, determine the Cadmium, Lead content by ICP-OES.
2) to refer to IEC 62321-4: 2013, determine the Mercury content by ICP-OES.
3) to refer to IEC 62321-7-1:2015 & IEC 62321-7-2:2017, determine the Hexavalent Chromium content by UV-VIS.
4) to refer to IEC 62321-6:2015, determine the Polybrominated Biphenyls and Polybrominated Diphenyl Ethers by GC-MS.
5) to refer to IEC 62321-8:2017, the analysis was performed by Gas Chromatography Mass Spectrometry (GC / MS).

Test Results : Please refer to next page (s).

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 2 of 40

Conclusion:

Basing on the test results obtained from the homogenous materials, the submitted sample **COMPLIES** with the requirements stated in the Annex II of RoHS Directive 2011/65/EU and amendment directive 2015/863/EU.

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

Prepared by:

Kira

Kira Fu
Report Engineer

Reviewed by:

Carrie

Carrie Zhang
Supervisor

Approved by:

Lainey

Lainey Qin
Manager

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 3 of 40

Test Results:

No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
1	Red hard plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
2	Black hard plastic with white and red printing	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
3	Transparent hard plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
4	Silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
5	Black soft plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
6	Solder-silver metal	Pb	BL	NA	Pass	The XRF screening results for Pb, Cd, Hg, Cr were obtained for the resubmitted sample on June 06, 2018.
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 4 of 40

No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
7	Silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
8	Brown paper board	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
9	Green PCB	Pb	BL	PBBs:ND PBDEs:ND	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	X			
10	SMD diode	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
11	SMD IC	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
12	SMD diode	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 5 of 40

No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
13	SMD resister	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
14	SMD triode	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
15	SMD capacitor	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
16	SMD resister	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
17	Brown PCB	Pb	BL	PBBs:ND PBDEs:ND	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	X			
18	Copper metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 6 of 40

No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
19	Green solid	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
20	SMD LED	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
21	Dark grey hard plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
22	Black hard plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
23	Silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
24	Silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 7 of 40

No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
25	Silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
26	Silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
27	Silver metal with black coating	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
28	Silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
29	Black soft plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
30	Black soft plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 8 of 40

No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
31	White soft plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
32	Red soft plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
33	Silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
34	White soft plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
35	Silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
36	Black soft plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 9 of 40

No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
37	Blue soft plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
38	Black soft plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
39	Solder-silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
40	Silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
41	Red soft plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
42	Black soft plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 10 of 40

No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
43	Transparent hard plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
44	White soft plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
45	Copper metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
46	Red hard plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
47	Black hard plastic with white and red printing	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
48	Dark grey hard plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 11 of 40

No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
49	Black foam	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
50	Black fabric	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
51	Dark grey soft plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
52	Transparent hard plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
53	SMD triode	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
54	Green PCB	Pb	BL	PBBs:ND PBDEs:ND	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	X			

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 12 of 40

No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
55	SMD resister	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
56	SMD capacitor	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
57	SMD IC	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
58	SMD LED	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
59	SMD diode	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
60	Solder-silver metal	Pb	BL	NA	Pass	The XRF screening results for Pb, Cd, Hg, Cr were obtained for the resubmitted sample on June 06, 2018.
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 13 of 40

No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
61	Silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
62	Black hard plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
63	Silver metal with black printing	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
64	Dark silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
65	Brown paper	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
66	Black soft plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 14 of 40

No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
67	Silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
68	Black hard plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
69	Silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
70	Silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
71	Black solid	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
72	Yellow hard plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 15 of 40

No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
73	White hard plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
74	Copper metal	Pb	OL	Pb:26654	Pass	As declared by client, the material should be exempted for lead content requirement according to Annex clause 6(c).
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
75	Silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
76	Black solid	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
77	Silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
78	Silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 16 of 40

No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
79	Black soft plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
80	Solder-silver metal	Pb	BL	NA	Pass	The XRF screening results for Pb, Cd, Hg, Cr were obtained for the resubmitted sample on June 06, 2018.
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
81	Silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
82	Brown paper board	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
83	Black hard plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
84	Black soft plastic	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 17 of 40

No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
85	Copper metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
86	Silver metal	Pb	BL	NA	Pass	The XRF screening results for Pb, Cd, Hg, Cr were obtained for the resubmitted sample on June 22, 2018.
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
87	Silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
88	Green PCB	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
89	Black glue	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	BL			
90	Solders-silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 18 of 40

No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Conclusion	Remark
91	Silver metal with black coating	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
92	Silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			
93	Silver metal	Pb	BL	NA	Pass	Non comment
		Cd	BL			
		Hg	BL			
		Cr	BL			
		Br	NA			

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 19 of 40

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

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	$BL \leq (300-3\sigma) < X$	NA	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(2) ① mg/kg = ppm = 0.0001%, ND = Not Detected (Less than reporting limit value.).

② Unit, Reporting Limit (RL) 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
RL	2	2	2	2	2	5	5
Requirement Limit	1000	100	1000	1000	Negative	1000	1000

③ According to IEC 62321-7-1:2015 & IEC 62321-7-2:2017, result on Cr⁶⁺ for metal sample is shown as Positive/Negative.

Negative = Absence of Cr⁶⁺ coating, Positive = Presence of Cr⁶⁺ coating.

Storage condition and production date of the tested sample are unavailable and thus results of Cr⁶⁺ 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 qualified.

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 20 of 40

Test Results:

Test results of Phthalates (DEHP, DBP, BBP, DIBP)

Test Item	Test Result (mg/kg)				Reporting Limit (mg/kg)	Requirement limit (mg/kg)
	1/3/21	2/47/83	5/79/84	22/43/46		
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	132	ND	30	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	30	1000

Test Item	Test Result (mg/kg)				Reporting Limit (mg/kg)	Requirement limit (mg/kg)
	29/30	31/32/34	36/37/38	41/42/44		
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

Test Item	Test Result (mg/kg)				Reporting Limit (mg/kg)	Requirement limit (mg/kg)
	48/52/62	49	51/66/89	68/72/73		
Dibutyl phthalate(DBP)	ND	ND	ND	ND	30	1000
Benzylbutyl phthalate(BBP)	ND	ND	ND	ND	30	1000
Di-2-ethylhexyl phthalate(DEHP)	ND	679	ND	ND	30	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	30	1000

Note: mg/kg = parts per million = ppm

ND = Not Detected (less than reporting limit)

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 21 of 40

Test Material List:

Item no.	Description
1	Red hard plastic
2	Black hard plastic with white and red printing
3	Transparent hard plastic
5	Black soft plastic
21	Dark grey hard plastic
22	Black hard plastic
29	Black soft plastic
30	Black soft plastic
31	White soft plastic
32	Red soft plastic
34	White soft plastic
36	Black soft plastic
37	Blue soft plastic
38	Black soft plastic
41	Red soft plastic
42	Black soft plastic
43	Transparent hard plastic
44	White soft plastic
46	Red hard plastic
47	Black hard plastic with white and red printing
48	Dark grey hard plastic
49	Black foam
51	Dark grey soft plastic
52	Transparent hard plastic
62	Black hard plastic
66	Black soft plastic
68	Black hard plastic
72	Yellow hard plastic
73	White hard plastic
79	Black soft plastic

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 22 of 40

Test Material List:

Item no.	Description
83	Black hard plastic
84	Black soft plastic
89	Black glue

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

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 23 of 40

Photo Appendix



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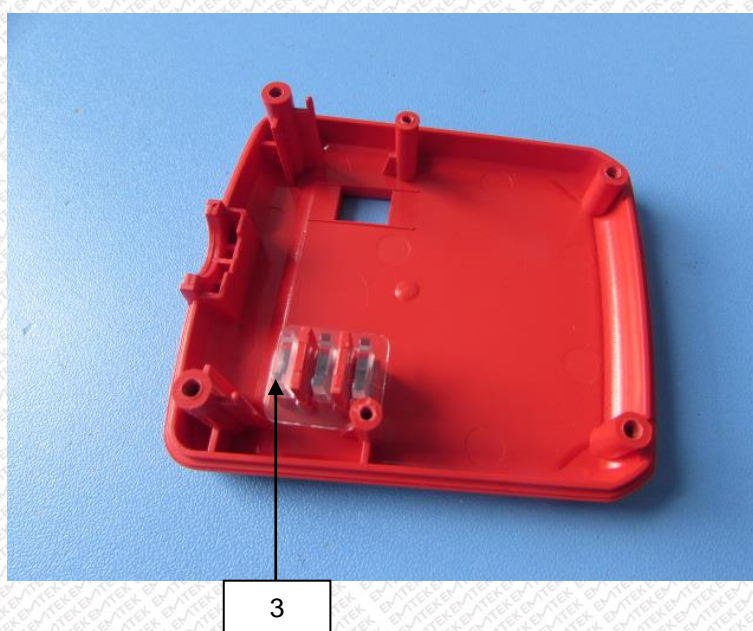
TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 24 of 40

Photo Appendix



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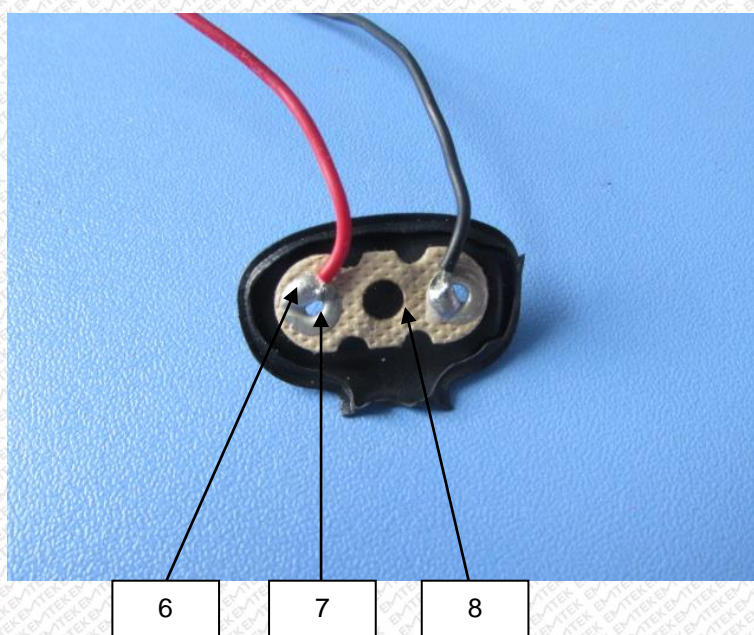
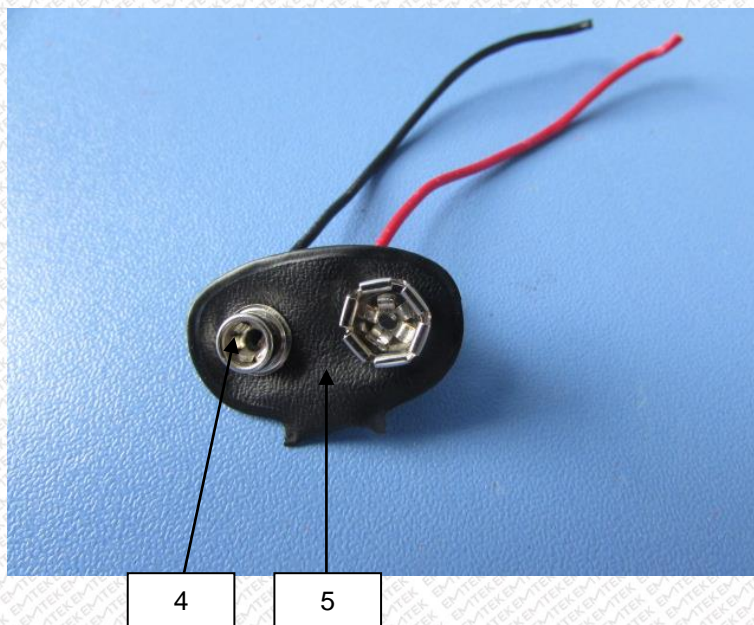
TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 25 of 40

Photo Appendix



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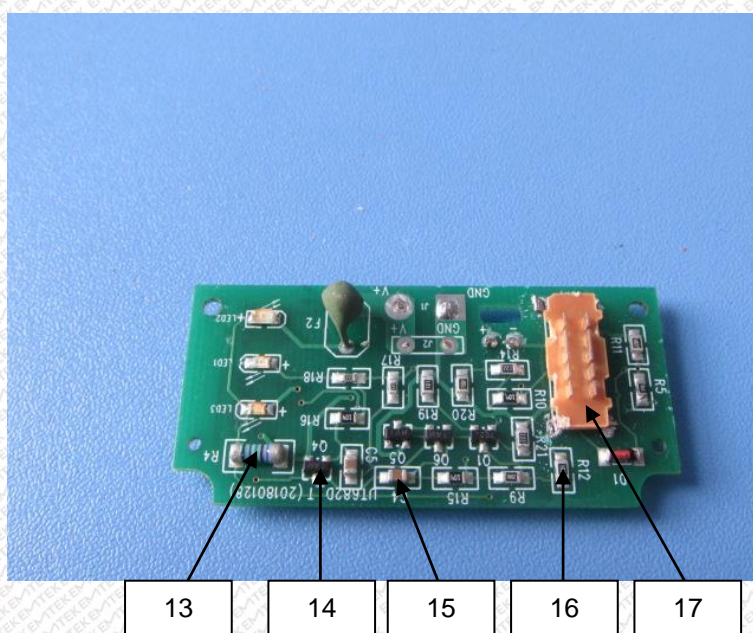
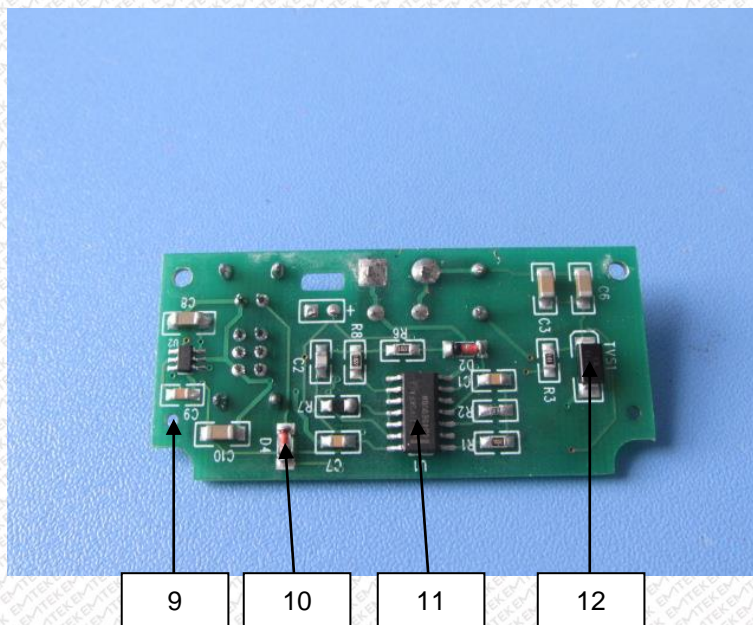
TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 26 of 40

Photo Appendix



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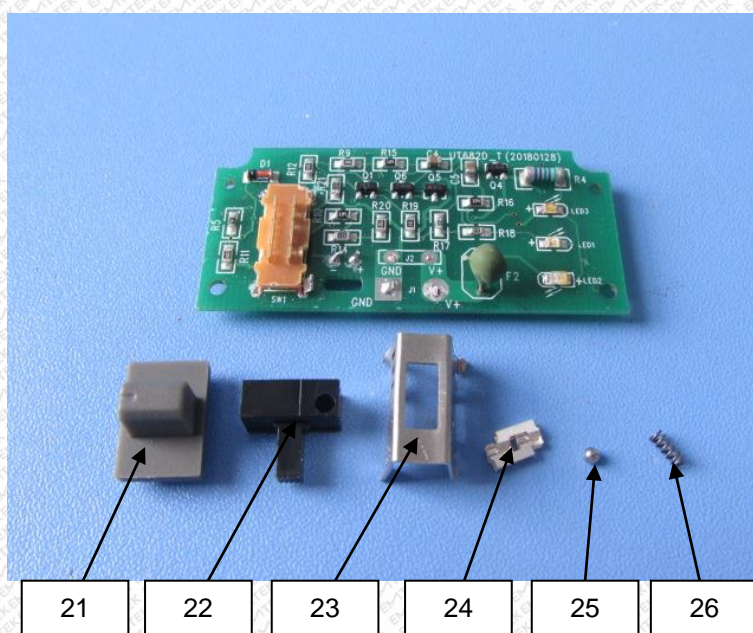
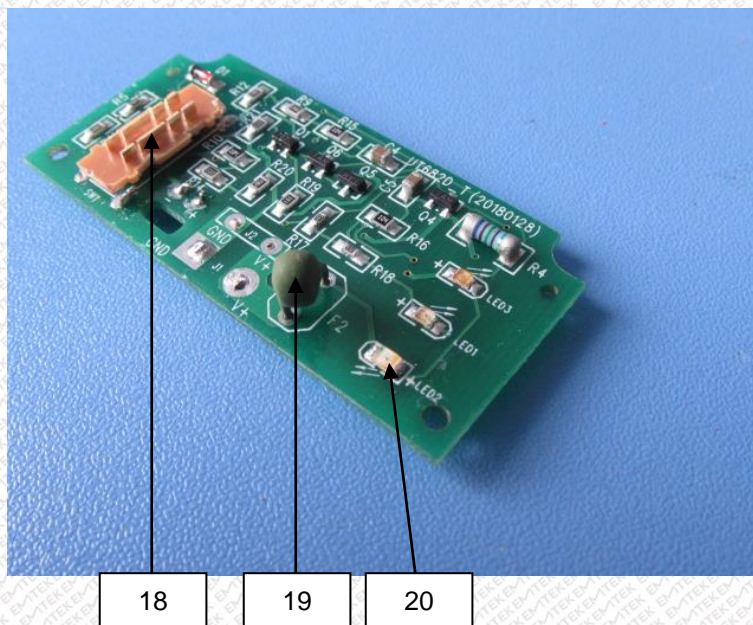
TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 27 of 40

Photo Appendix



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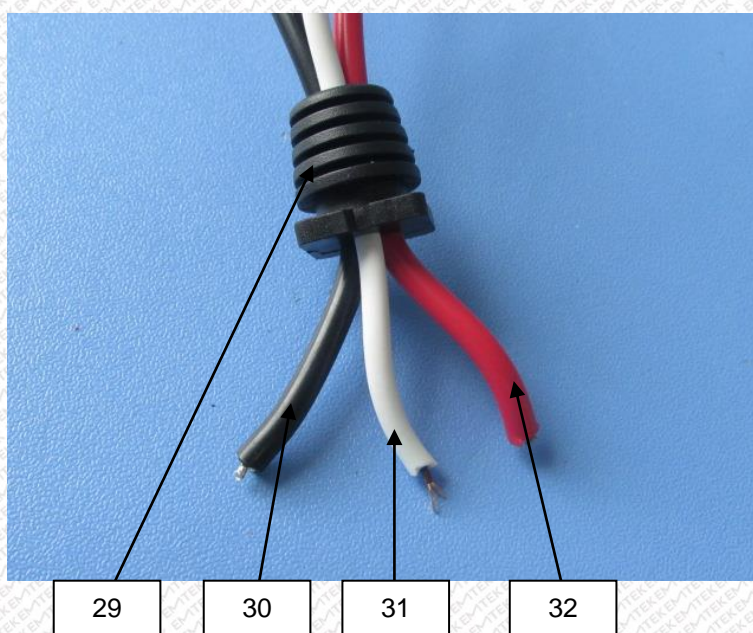
TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 28 of 40

Photo Appendix



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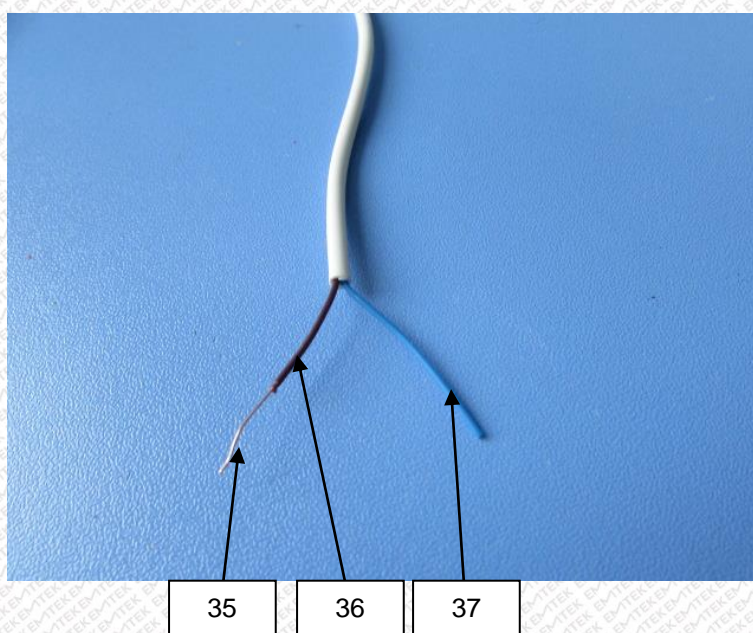
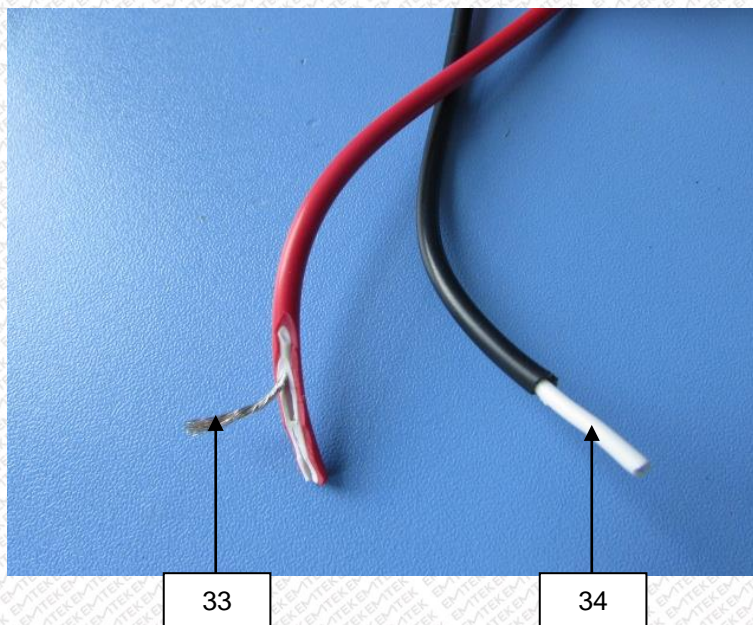
TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 29 of 40

Photo Appendix



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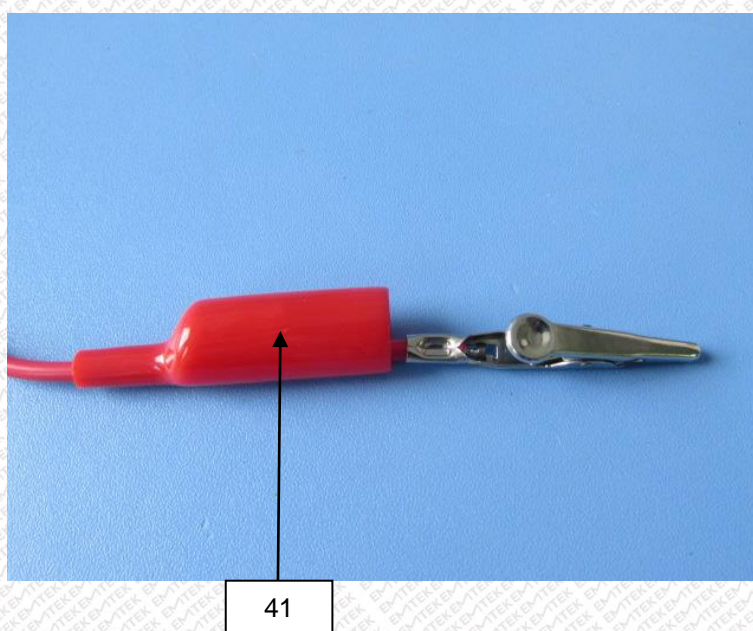
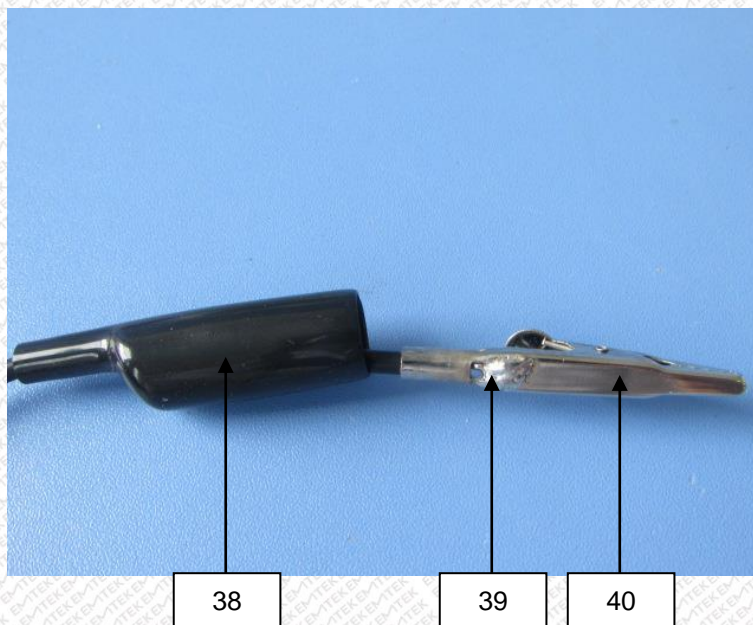
TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 30 of 40

Photo Appendix



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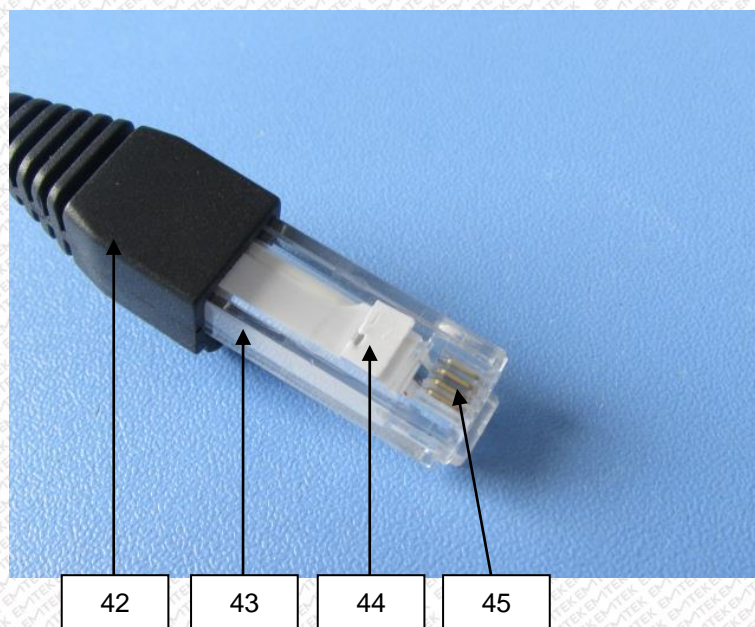
TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 31 of 40

Photo Appendix



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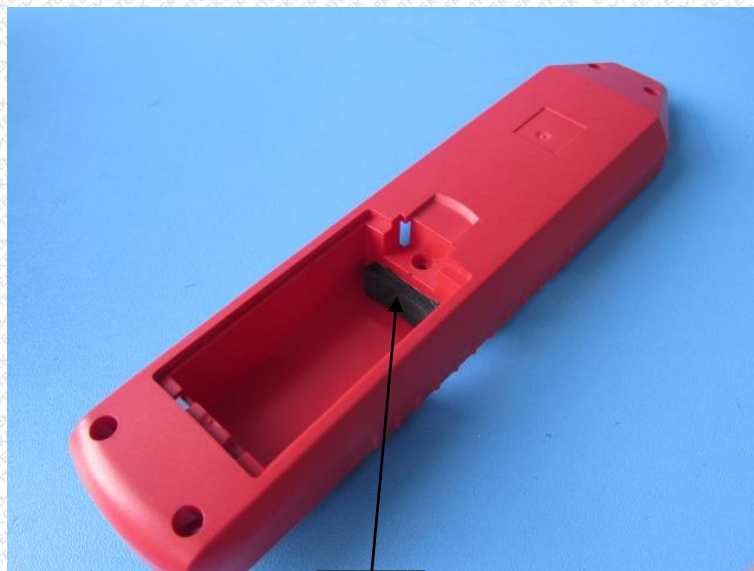
TEST REPORT

No.: ED180509022C

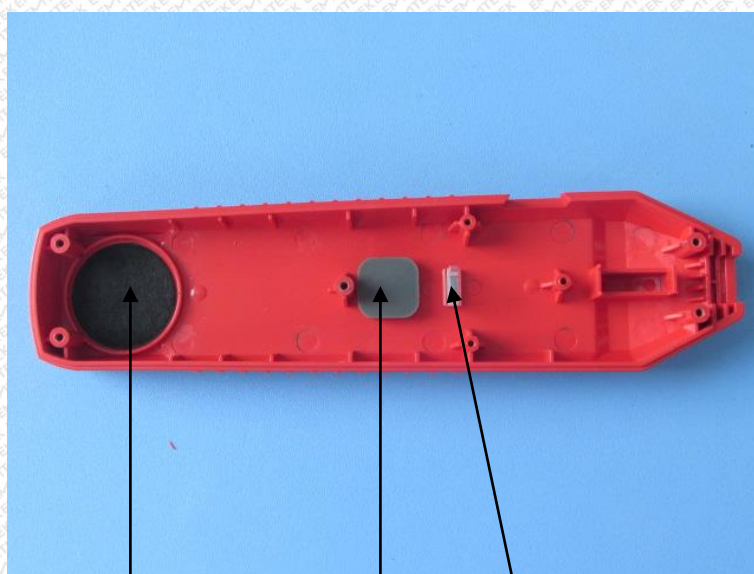
Date: June 29, 2018

Page 32 of 40

Photo Appendix



49



50

51

52

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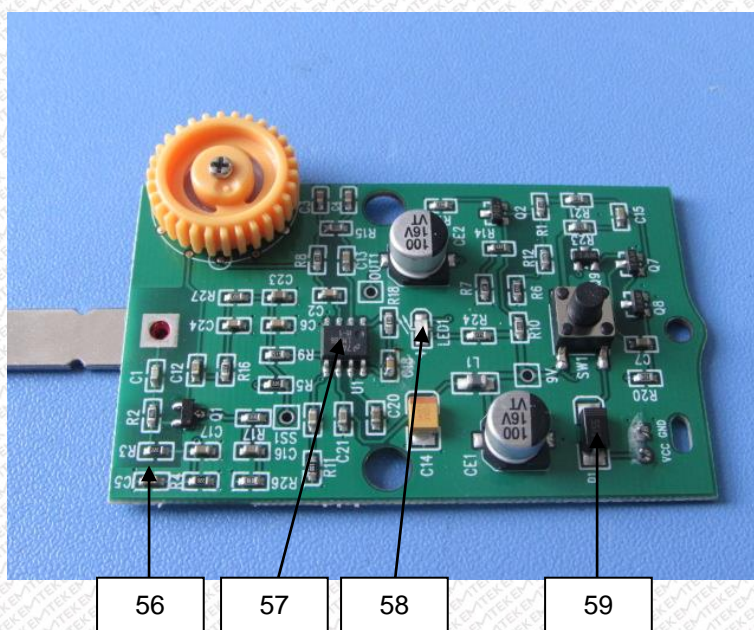
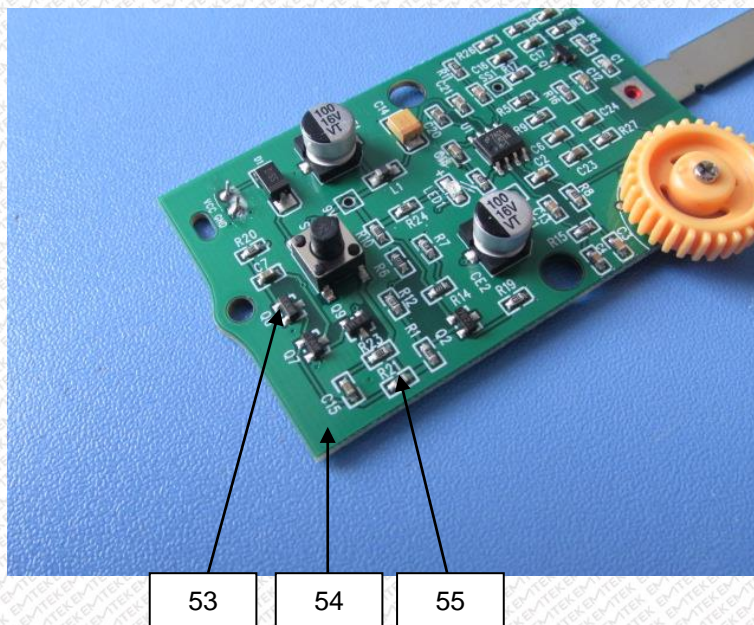
TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 33 of 40

Photo Appendix



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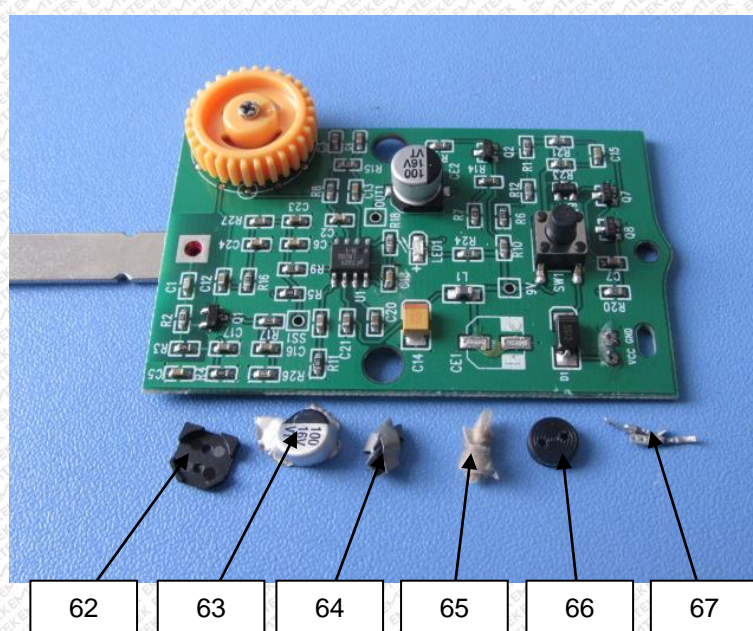
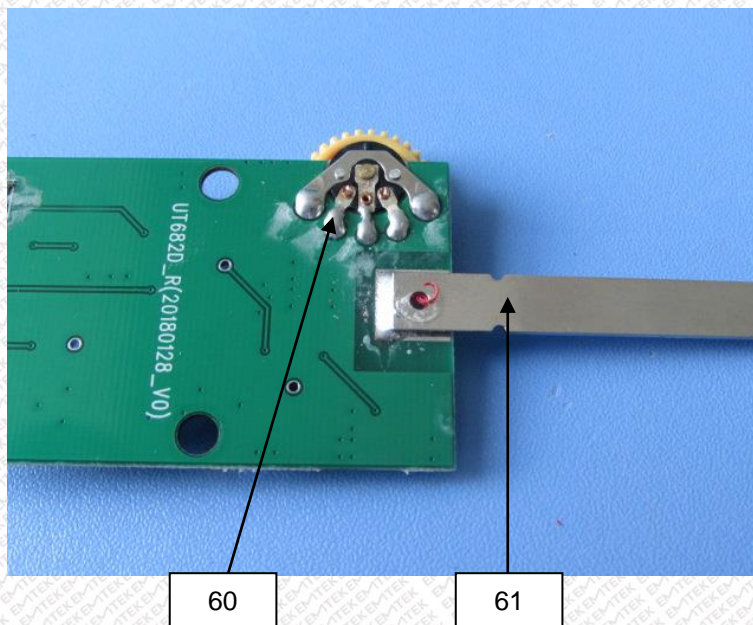
TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 34 of 40

Photo Appendix



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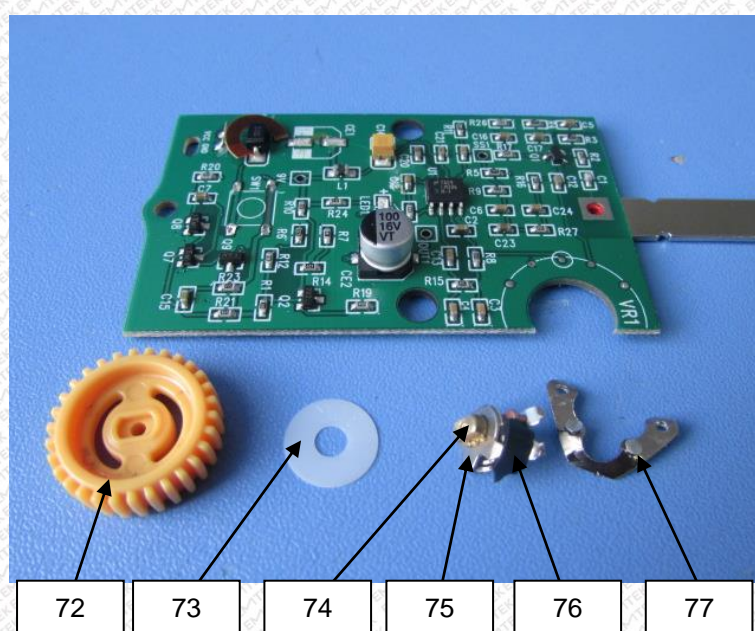
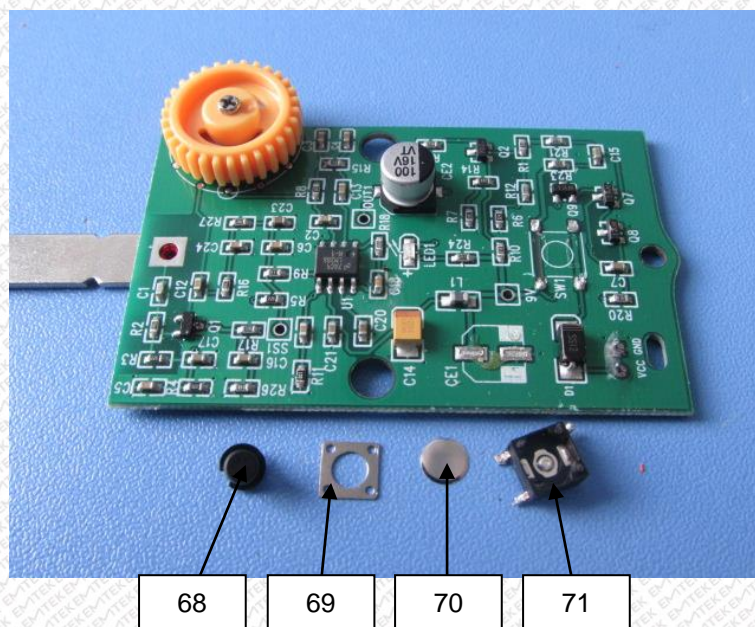
TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 35 of 40

Photo Appendix



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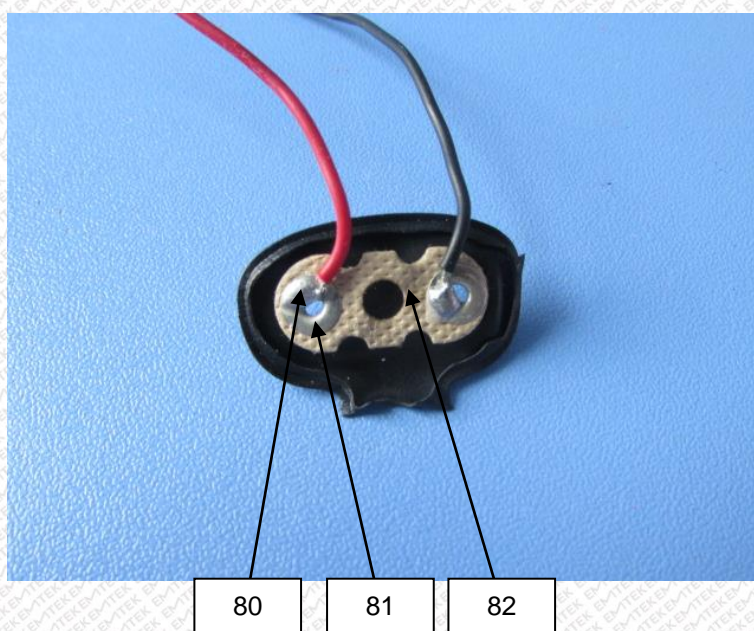
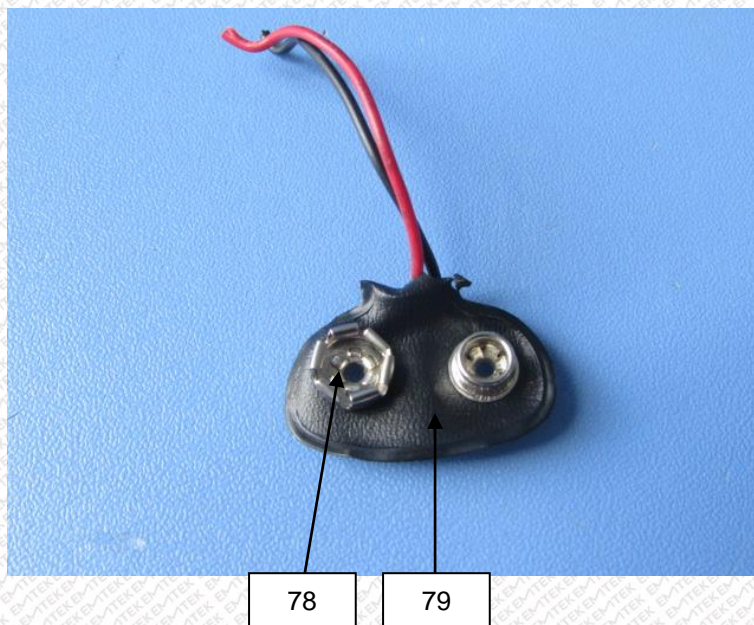
TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 36 of 40

Photo Appendix



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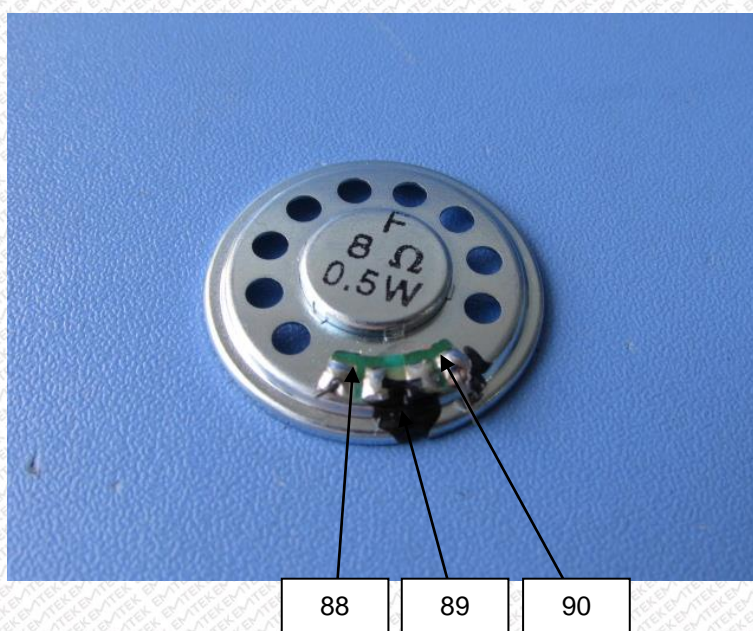
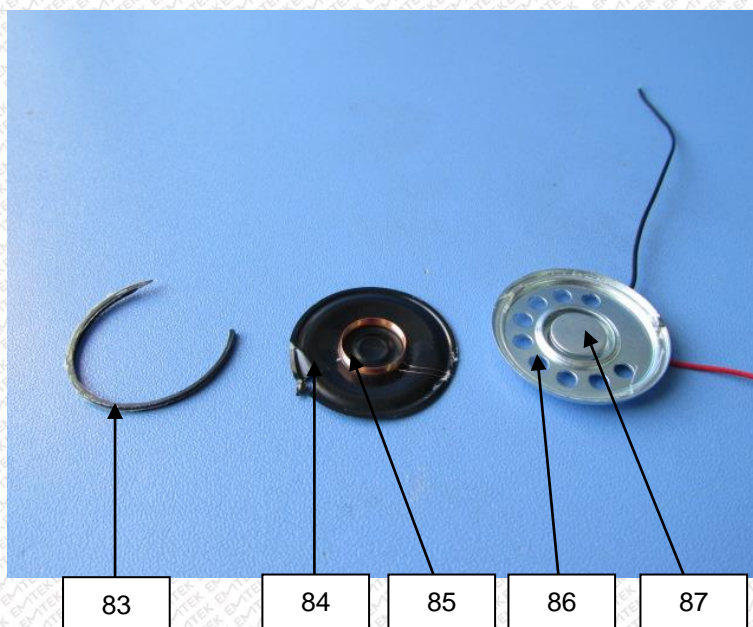
TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 37 of 40

Photo Appendix



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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 38 of 40

Photo Appendix



* * * * * **The End** * * * * *

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 39 of 40

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 \geq 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 \geq 50W and <150W: 5mg
 - 1(d) For general lighting purposes \geq 150W: 15mg
 - 1(e) For general lighting purposes with circular or square structural shape and tube diameter \leq 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 purposes 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 \geq 9mm and \leq 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 \leq 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 (\geq 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 (\leq 500mm) (No limitation of use until 31 December 2011; 3.5mg may be used per lamp after 31 December 2011)
 - 3(b) Medium length (> 500mm and \leq 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 $P \leq 155W$ (no limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011)
 - 4(b)-II $155W < P \leq 405W$ (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 $P \leq 155W$ (no limitation of use until 31 December 2011; 25mg may be used per burner after 31 December 2011)
 - 4(c)-II $155W < P \leq 405W$ (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.

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TEST REPORT

No.: ED180509022C

Date: June 29, 2018

Page 40 of 40

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. piezoelectric 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
- 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 ($\text{BaSi}_2\text{O}_5\text{:Pb}$)
- 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
- 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 ($< 10 \mu\text{g Cd per mm}^2$ 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)

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