



Technical Report No. 68.401.18.1830.01
Dated 2018-08-03

Client:	Ningbo Kanghong Electrical Appliance Co., Ltd						
Address:	Zonghan Development Area, 315301 Cixi City, Zhejiang Province, PEOPLE'S REPUBLIC OF CHINA						
Attn.:	Liu jinghai						
Sample Description:	Electric blanket, Heating pad, Foot warmer						
Model No.:	TDK(LL*WWW)-1XC, FW210, TH(LL*WWW)-1XC, TX(LL*WWW)-1X, TDD(LL*WWW)-2DSC, TSK(LL*WWW)-1SC, TYD(LL*WWW)-D6C, HP210, HBNP210, TNCK(LL*WWW)-NSC						
Ref. Model No.:	See APPENDIX II						
Supplier:	Ningbo Kanghong Electrical Appliance Co., Ltd						
Country of origin:	China						
Exported to:	Europe, United States, Australia, South America, Asia						
Sample Received Date:	2018-04-03, 2018-07-11						
Test Period:	From 2018-04-03 to 2018-04-13; From 2018-07-11 to 2018-07-25						
Purpose of examination and Conclusion:	Verification of RoHS (Restriction of Hazardous Substances) directive 2011/65/EU and its amendment (EU) 2015/863 on submitted samples <table><tr><td>- Heavy Metal (Pb, Cd, Hg and Cr VI) Content</td><td>PASS</td></tr><tr><td>- Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) Content</td><td>PASS</td></tr><tr><td>- Phthalates (DEHP, BBP, DBP and DIBP) Content</td><td>PASS</td></tr></table>	- Heavy Metal (Pb, Cd, Hg and Cr VI) Content	PASS	- Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) Content	PASS	- Phthalates (DEHP, BBP, DBP and DIBP) Content	PASS
- Heavy Metal (Pb, Cd, Hg and Cr VI) Content	PASS						
- Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) Content	PASS						
- Phthalates (DEHP, BBP, DBP and DIBP) Content	PASS						
Test Result:	Refer to following page(s)						
Remark:	The result relates only to the items tested.						

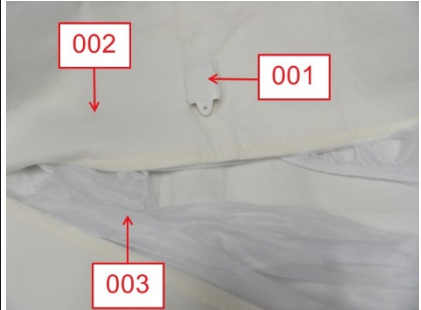
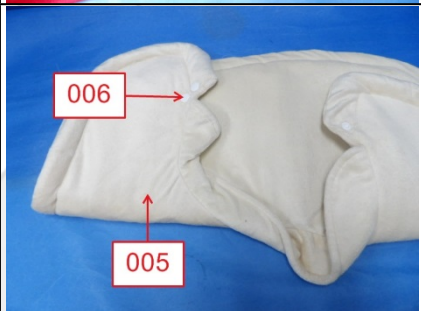
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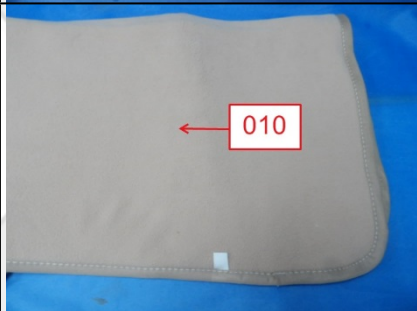
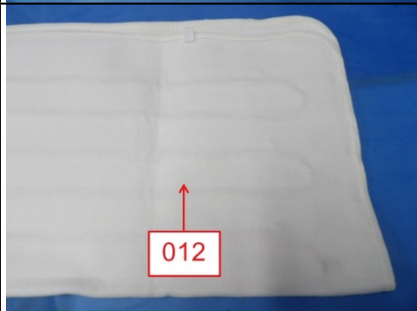
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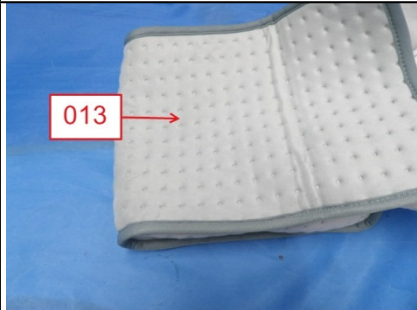
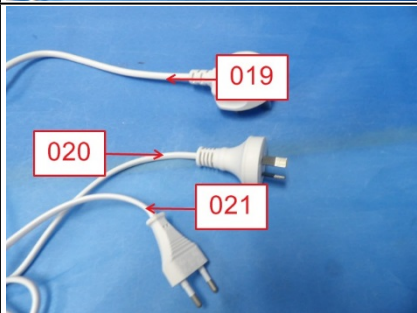
1. TESTED SUBJECT DESCRIPTION

Sample Number	Item Name	Tested Material Description	Photo
001	Case	White plastic case	
002	Fabric	White fabric	
003	Fabric	White fabric	
004	Fabric	Red fabric	
005	Fabric	Beige fabric	
006	Button	White plastic	
007	Fabric	Beige fabric	

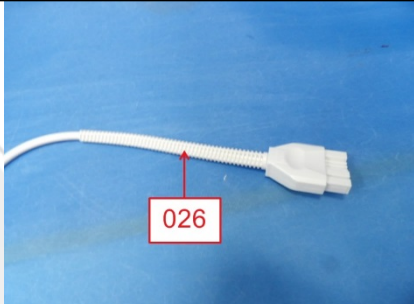
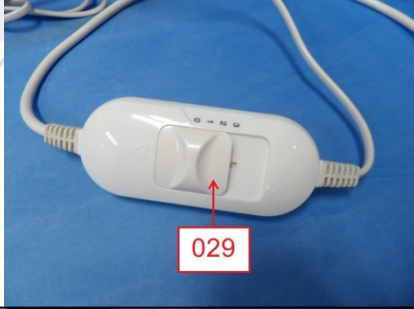
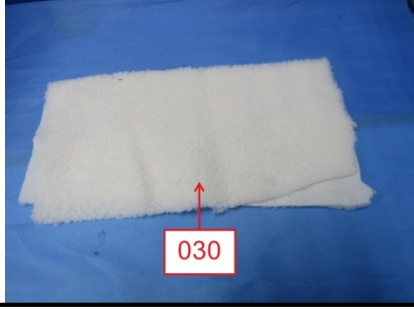
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Sample Number	Item Name	Tested Material Description	Photo
008	Fabric	Brown fabric	
009	Fabric	Beige fabric	
010	Fabric	Red/brown fabric	
011	Fabric	White fabric	
012	Fabric	White fabric	

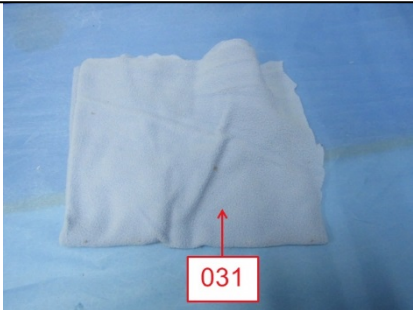
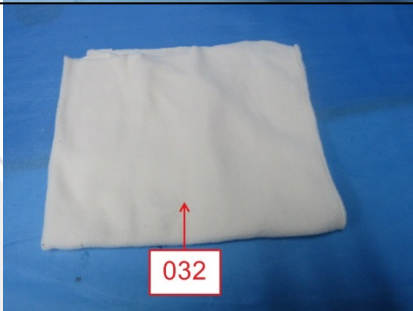
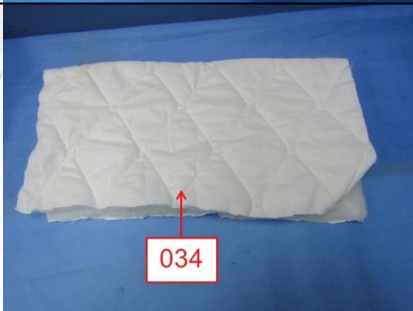
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Sample Number	Item Name	Tested Material Description	Photo
013	Fabric	Grey fabric	
014	Fabric	White fabric	
015	Fabric	White fabric	
016	Power cord	White soft plastic case	
017		White soft plastic case	
018		White soft plastic case	
019	Power cord	White soft plastic cable jacket	
020		White soft plastic cable jacket	
021		White soft plastic cable jacket	

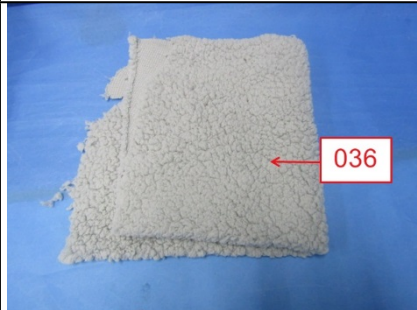
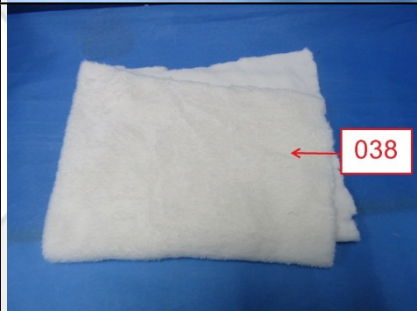
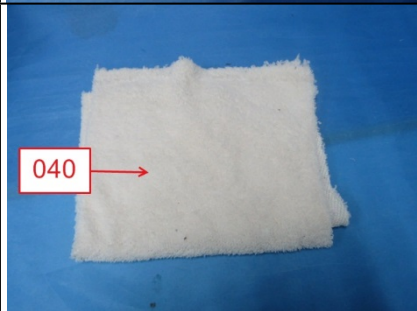
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Sample Number	Item Name	Tested Material Description	Photo
022	Screen	Multi color printed transparent plastic	
023	Button	Grey plastic	
024	Bushing	Grey plastic	
025	Case	White soft plastic	
026	Bushing	White soft plastic	
027	Button	Grey plastic	
028	Screen	Black transparent plastic	
029	Switch	White plastic	
030	Fabric	White fabric	

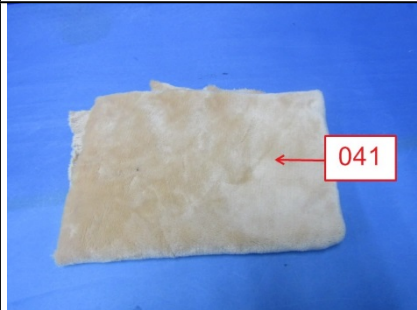
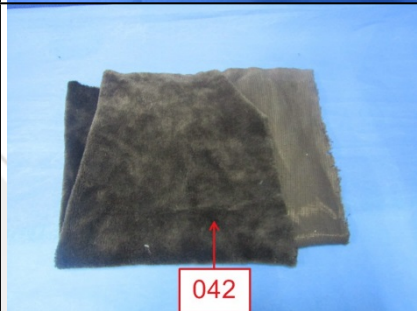
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Sample Number	Item Name	Tested Material Description	Photo
031	Fabric	Blue fabric	
032	Fabric	Beige fabric	
033	Fabric	Beige fabric	
034	Fabric	White fabric	
035	Fabric	Brown fabric	

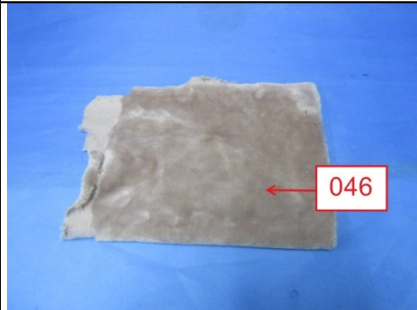
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Sample Number	Item Name	Tested Material Description	Photo
036	Fabric	Grey fabric	
037	Fabric	Dark grey fabric	
038	Fabric	White fabric	
039	Case	Transparent plastic	
040	Fabric	White fabric	

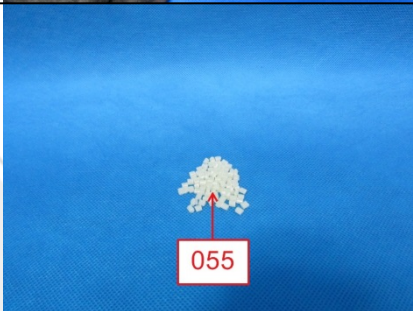
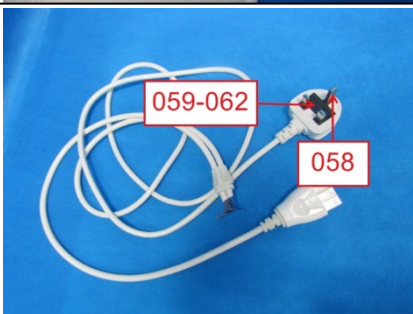
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Sample Number	Item Name	Tested Material Description	Photo
041	Fabric	Brown fabric	
042	Fabric	Dark grey fabric	
043	Fabric	White fabric	
044	Fabric	White fabric	
045	Fabric	Grey fabric	

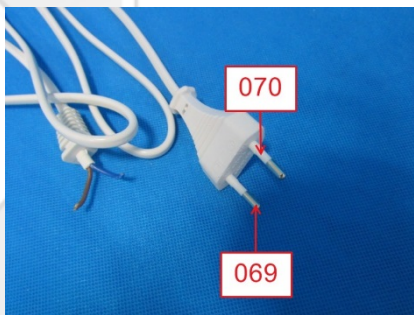
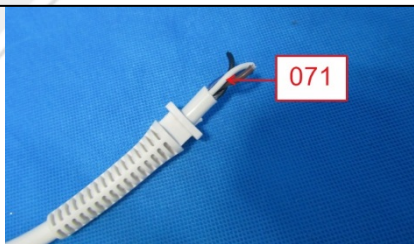
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Sample Number	Item Name	Tested Material Description	Photo
046	Fabric	Grey fabric	
047	Label	Black printed white fabric	
048	Parts	White fabric	
049	Wire	White soft plastic cable jacket	
050		Transparent soft plastic with white fabric	
051		Copper metal wire	
052	Fabric	Grey fabric	
053	Fabric	White fabric	

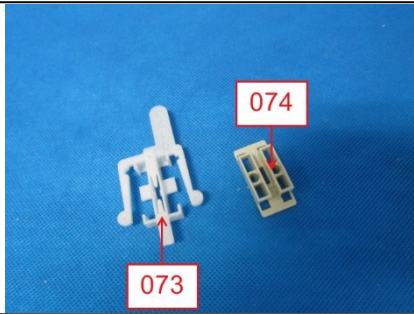
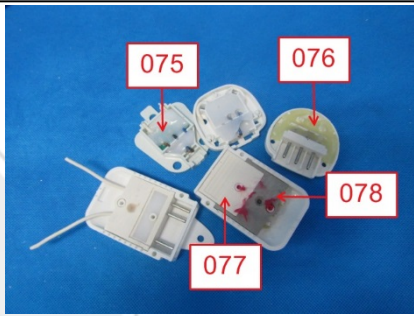
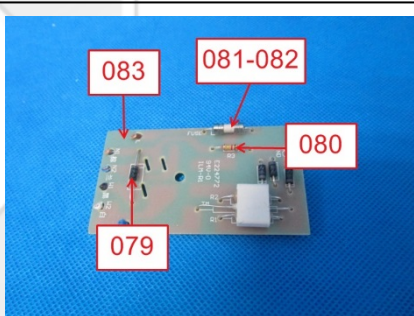
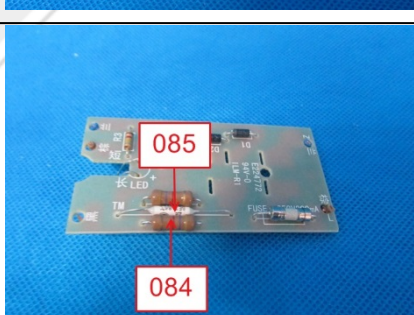
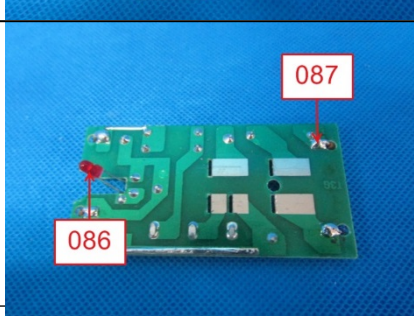
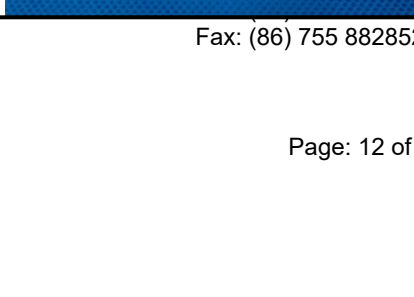
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Sample Number	Item Name	Tested Material Description	Photo
054	Fabric	Brown fabric	
055	Particle	White plastic	
056	Fabric	Beige fabric	
057	Fabric	White fabric	
058	Plug parts	Silvery metal pin	
059		Black plastic case	
060		Silvery metal cap	
061		Red printed white body	
062		Golden metal	

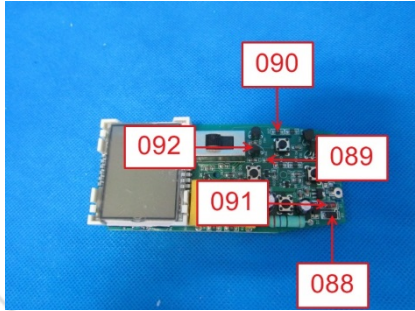
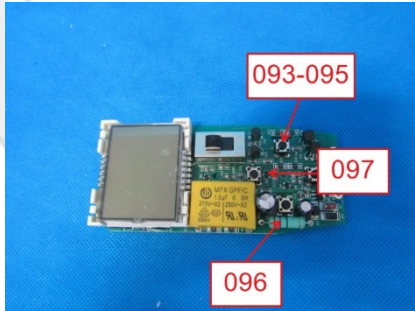
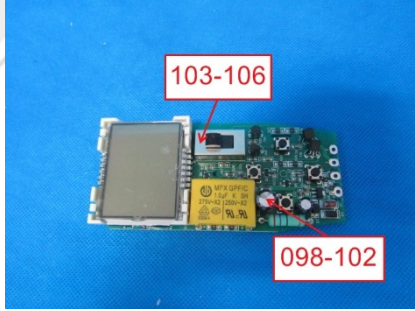
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Sample Number	Item Name	Tested Material Description	Photo
063	Wire	Blue soft plastic wire jacket	
064		Black soft plastic wire jacket	
065		Brown soft plastic wire jacket	
066		Coppery metal wire	
067	Plug parts	Silvery metal pin	
068		Black plastic holder	
069	Plug parts	Silvery metal pin	
070		White plastic holder	
071	Wire	White soft plastic wire jacket	
072	Plug parts	Silvery metal	

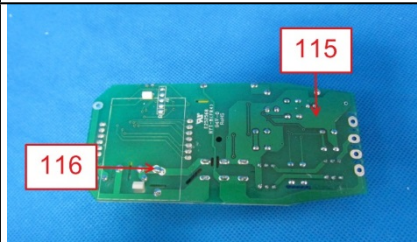
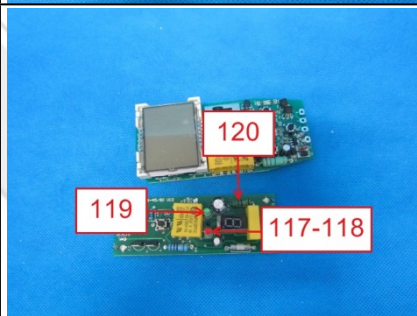
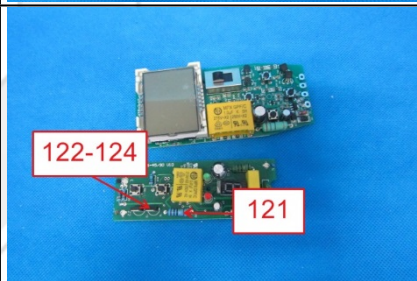
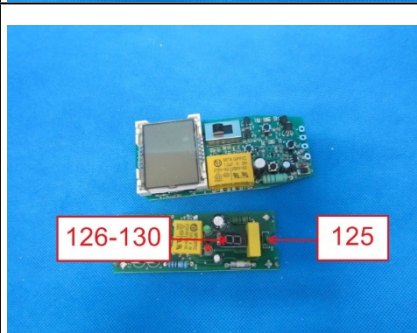
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Sample Number	Item Name	Tested Material Description	Photo
073	Switch parts	White plastic	
074		Beige plastic	
075	Glue	White glue	
076		Beige glue	
077	Case	White plastic	
078	PCB	Green PCB	
079	Diode	Grey printed black body with pin	
080	Resistor	Multi-color printed grey body with pin	
081	Fuse	Silvery metal cap	
082		White ceramic with brown printing	
083	PCB	Grey/green PCB	
084	Resistor	Multi-color printed brown body with pin	
085	EC	White body with black printing	
086	LED	Red body with pin	

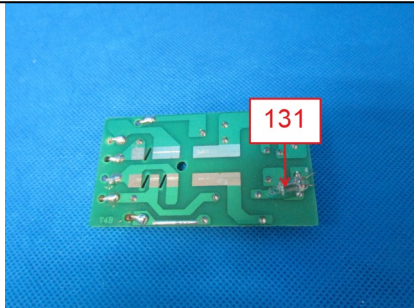
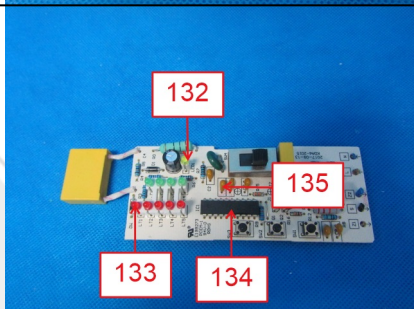
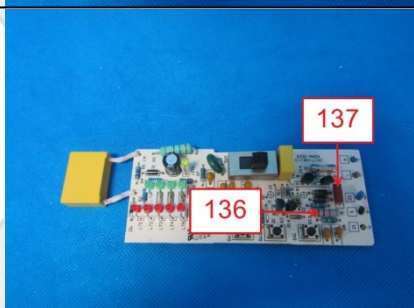
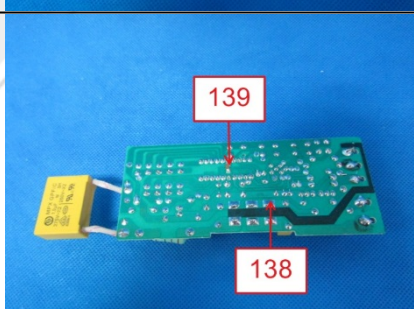
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Sample Number	Item Name	Tested Material Description	Photo
087	Solder	Silvery metal solder	
088	EC	Black body with pin	
089	SMD capacity	Brown body with pin	
090	SMD resistor	White printed black body with pin	
091	Glass Diode	Black/red glass body with pin	
092	EC	Black body with pin	
093	Button	Black plastic	
094		Silvery metal case	
095		Silvery/coppery metal plate	
096	Inductor	Multi-color printed green body with pin	
097	SMD triode	Black body with pin	
098	Capacity	Black plastic with white printing	
099		Black rubber cover	
100		Brown paper with liquid	
101		Silvery metal shell	
102		Grey metal foil	
103	Switch	Black plastic	
104		Silvery metal case	
105		Beige plastic	
106		Silvery metal pin	
107	Resnator	Yellow plastic with black printing	
108		Grey metal foil	
109		Yellow plastic base	

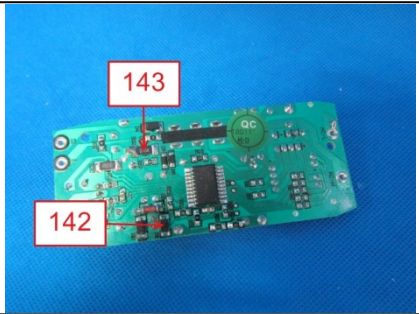
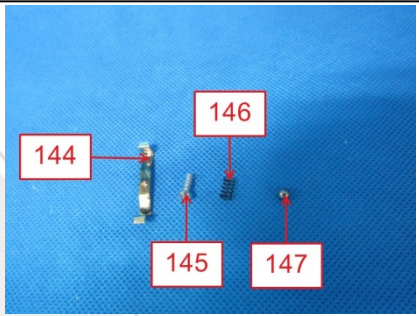
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Sample Number	Item Name	Tested Material Description	Photo
110	Screen parts	Transparent glass	
111		White plastic	
112		White plastic plate	
113		Transparent plastic plate	
114		Black adhesive tape	
115	PCB	Green PCB	
116	Solder	Silvery metal solder	
117	LED	Red body with in	
118		White plastic holder	
119		Green body with in	
120	Inductor	Multi-color printed green body with pin	
121	Resistor	Multi-color printed grey body with pin	
122	Triode	Black plastic case	
123		Silvery/copper metal with solder	
124		Silvery metal pin	
125	Capacity	Green body with pin	
126	Display	White plastic with black printing (base)	
127		Translucent plastic	
128		White plastic with black printing (shell)	
129		Silvery metal pin	
130		Black PCB	

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Sample Number	Item Name	Tested Material Description	Photo
131	LED	Transparent glass	
132	LED	Yellow body with pin	
133	Glass Diode	Black/red glass body with pin	
134	EC	Black body with pin	
135	Capacity	Brown body with pin	
136	Resistor	Multi-color printed grey body with pin	
137	Capacity	Brown body with pin	
138	Solder	Silvery metal solder	
139	SMD capacity	Brown body with pin	
140	EC	Black body with pin	
141	PCB	Green/white PCB	

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Sample Number	Item Name	Tested Material Description	Photo
142	EC	Black body with pin	
143	SMD resistor	White printed black body with pin	
144	Plate	Silvery metal plate	
145	Screw	Silvery metal screw	
146	Spring	Black metal spring	
147	Ball	Silvery metal ball	

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2. TEST RESULTS

2.1. SCREENING TEST

Test method: With reference to EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014 and EN 62321-8:2017. For Heavy Metals and Flame Retardants, analyzed by Energy Dispersive X-ray Fluorescence Spectrometers (XRF); for phthalates, analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Cr	Hg	Pb	Br	DEHP	BBP	DBP	DIBP
001	BL	BL	BL	BL	BL	BL	BL	BL	BL
002	BL	BL	BL	BL	BL	BL	BL	BL	BL
003	BL	BL	BL	BL	BL	BL	BL	BL	BL
004	BL	BL	BL	BL	BL	BL	BL	BL	BL
005	BL	BL	BL	BL	BL	BL	BL	BL	BL
006	BL	BL	BL	BL	BL	BL	BL	BL	BL
007	BL	BL	BL	BL	BL	BL	BL	BL	BL
008	BL	BL	BL	BL	BL	BL	BL	BL	BL
009	BL	BL	BL	BL	BL	BL	BL	BL	BL
010	BL	BL	BL	BL	BL	BL	BL	BL	BL
011	BL	BL	BL	BL	BL	BL	BL	BL	BL
012	BL	BL	BL	BL	BL	BL	BL	BL	BL
013	BL	BL	BL	BL	BL	BL	BL	BL	BL
014	BL	BL	BL	BL	BL	BL	BL	BL	BL
015	BL	BL	BL	BL	BL	BL	BL	BL	BL
016	BL	BL	BL	BL	BL	BL	BL	BL	BL
017	BL	BL	BL	BL	BL	BL	BL	BL	BL
018	BL	BL	BL	BL	BL	BL	BL	BL	BL
019	BL	BL	BL	BL	BL	BL	BL	BL	BL
020	BL	BL	BL	BL	BL	BL	BL	BL	BL
021	BL	BL	BL	BL	BL	BL	BL	BL	BL
022	BL	BL	BL	BL	BL	BL	BL	BL	BL
023	BL	BL	BL	BL	BL	BL	BL	BL	BL
024	BL	BL	BL	BL	BL	BL	BL	BL	BL
025	BL	BL	BL	BL	BL	BL	BL	BL	BL
026	BL	BL	BL	BL	BL	BL	BL	BL	BL
027	BL	BL	BL	BL	BL	BL	BL	BL	BL

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Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Cr	Hg	Pb	Br	DEHP	BBP	DBP	DIBP
028	BL	BL	BL	BL	BL	BL	BL	BL	BL
029	BL	BL	BL	BL	BL	BL	BL	BL	BL
030	BL	BL	BL	BL	BL	BL	BL	BL	BL
031	BL	BL	BL	BL	BL	BL	BL	BL	BL
032	BL	BL	BL	BL	BL	BL	BL	BL	BL
033	BL	BL	BL	BL	BL	BL	BL	BL	BL
034	BL	BL	BL	BL	BL	BL	BL	BL	BL
035	BL	BL	BL	BL	BL	BL	BL	BL	BL
036	BL	BL	BL	BL	BL	BL	BL	BL	BL
037	BL	BL	BL	BL	BL	BL	BL	BL	BL
038	BL	BL	BL	BL	BL	BL	BL	BL	BL
039	BL	BL	BL	BL	BL	BL	BL	BL	BL
040	BL	BL	BL	BL	BL	BL	BL	BL	BL
041	BL	BL	BL	BL	BL	BL	BL	BL	BL
042	BL	BL	BL	BL	BL	BL	BL	BL	BL
043	BL	BL	BL	BL	BL	BL	BL	BL	BL
044	BL	BL	BL	BL	BL	BL	BL	BL	BL
045	BL	BL	BL	BL	BL	BL	BL	BL	BL
046	BL	BL	BL	BL	BL	BL	BL	BL	BL
047	BL	BL	BL	BL	BL	BL	BL	BL	BL
048	BL	BL	BL	BL	BL	BL	BL	BL	BL
049	BL	BL	BL	BL	BL	BL	BL	BL	BL
050	BL	BL	BL	BL	BL	BL	BL	BL	BL
051	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
052	BL	BL	BL	BL	BL	BL	BL	BL	BL
053	BL	BL	BL	BL	BL	BL	BL	BL	BL
054	BL	BL	BL	BL	BL	BL	BL	BL	BL
055	BL	BL	BL	BL	BL	BL	BL	BL	BL
056	BL	BL	BL	BL	BL	BL	BL	BL	BL
057	BL	BL	BL	BL	BL	BL	BL	BL	BL
058	BL	BL	BL	OL ^(a)	N.A.	N.A.	N.A.	N.A.	N.A.
059	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL

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Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Cr	Hg	Pb	Br	DEHP	BBP	DBP	DIBP
060	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
061	BL	BL	BL	BL	BL	BL	BL	BL	BL
062	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
063	BL	BL	BL	BL	BL	BL	BL	BL	BL
064	BL	BL	BL	BL	BL	BL	BL	BL	BL
065	BL	BL	BL	BL	BL	BL	BL	BL	BL
066	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
067	BL	BL	BL	OL ^(a)	N.A.	N.A.	N.A.	N.A.	N.A.
068	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
069	BL	BL	BL	OL ^(a)	N.A.	N.A.	N.A.	N.A.	N.A.
070	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
071	BL	BL	BL	BL	BL	BL	BL	BL	BL
072	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
073	BL	BL	BL	BL	BL	BL	BL	BL	BL
074	BL	BL	BL	BL	BL	BL	BL	BL	BL
075	BL	BL	BL	BL	BL	BL	BL	BL	BL
076	BL	BL	BL	BL	BL	BL	BL	BL	BL
077	BL	BL	BL	BL	BL	BL	BL	BL	BL
078	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
079	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
080	BL	BL	BL	BL	BL	BL	BL	BL	BL
081	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
082	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
083	BL	BL	BL	BL	BL	BL	BL	BL	BL
084	BL	BL	BL	BL	BL	BL	BL	BL	BL
085	BL	BL	BL	BL	BL	BL	BL	BL	BL
086	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
087	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
088	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
089	BL	BL	BL	BL	BL	BL	BL	BL	BL
090	BL	BL	BL	OL ^(a)	BL	BL	BL	BL	BL
091	BL	BL	BL	OL ^(a)	N.A.	N.A.	N.A.	N.A.	N.A.

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Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Cr	Hg	Pb	Br	DEHP	BBP	DBP	DIBP
092	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
093	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
094	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
095	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
096	BL	Inc. ^(a)	BL	BL	BL	BL	BL	BL	BL
097	BL	BL	BL	BL	BL	BL	BL	BL	BL
098	BL	BL	BL	BL	BL	BL	BL	BL	BL
099	BL	BL	BL	BL	BL	BL	BL	BL	BL
100	BL	BL	BL	BL	BL	BL	BL	BL	BL
101	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
102	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
103	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
104	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
105	BL	BL	BL	BL	BL	BL	BL	BL	BL
106	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
107	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
108	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
109	BL	BL	BL	BL	BL	BL	BL	BL	BL
110	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
111	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
112	BL	BL	BL	BL	BL	BL	BL	BL	BL
113	BL	BL	BL	BL	BL	BL	BL	BL	BL
114	BL	BL	BL	BL	BL	BL	BL	BL	BL
115	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
116	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
117	BL	BL	BL	BL	BL	BL	BL	BL	BL
118	BL	BL	BL	BL	BL	BL	BL	BL	BL
119	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
120	BL	BL	BL	BL	BL	BL	BL	BL	BL
121	BL	BL	BL	BL	BL	BL	BL	BL	BL
122	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
123	BL	BL	BL	OL ^(a)	N.A.	N.A.	N.A.	N.A.	N.A.

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Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Cr	Hg	Pb	Br	DEHP	BBP	DBP	DIBP
124	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
125	BL	BL	BL	BL	BL	BL	BL	BL	BL
126	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
127	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
128	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
129	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
130	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
131	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
132	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
133	BL	BL	BL	OL ^(a)	N.A.	N.A.	N.A.	N.A.	N.A.
134	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
135	BL	BL	BL	BL	BL	BL	BL	BL	BL
136	BL	BL	BL	BL	BL	BL	BL	BL	BL
137	BL	BL	BL	BL	BL	BL	BL	BL	BL
138	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
139	BL	BL	BL	BL	BL	BL	BL	BL	BL
140	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
141	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
142	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
143	BL	Inc. ^(a)	BL	BL	BL	BL	BL	BL	BL
144	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
145	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
146	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.
147	BL	Inc. ^(a)	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.

Note:

- “BL” denotes below limit
- “OL” denotes over limit
- “Inc.” denotes inconclusive
- “N.A.” denotes not applicable
- “(a)” denotes further confirmation test was conducted, results are listed in 2.2, 2.3 and 2.4.

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— XRF screening limits in mg/kg for regulated elements in various matrices

ELEMENT	POLYMER		
	BL	INCONCLUSIVE	OL
Cd	$X < (70-3\sigma)$	$(70-3\sigma) < X < (130+3\sigma)$	$X > (130+3\sigma)$
Pb	$X < (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X > (1300+3\sigma)$
Hg	$X < (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X > (1300+3\sigma)$
Br	$X < (300-3\sigma)$	$X > (300-3\sigma)$	NA
Cr	$X < (700-3\sigma)$	$X > (700-3\sigma)$	NA

ELEMENT	METAL		
	BL	INCONCLUSIVE	OL
Cd	$X < (70-3\sigma)$	$(70-3\sigma) < X < (130+3\sigma)$	$X > (130+3\sigma)$
Pb	$X < (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X > (1300+3\sigma)$
Hg	$X < (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X > (1300+3\sigma)$
Cr	$X < (700-3\sigma)$	$X > (700-3\sigma)$	NA

ELEMENT	COMPLEX MATERIAL		
	BL	INCONCLUSIVE	OL
Cd	$X < (50-3\sigma)$	$(50-3\sigma) < X < (150+3\sigma)$	$X > (150+3\sigma)$
Pb	$X < (500-3\sigma)$	$(500-3\sigma) < X < (1500+3\sigma)$	$X > (1500+3\sigma)$
Hg	$X < (500-3\sigma)$	$(500-3\sigma) < X < (1500+3\sigma)$	$X > (1500+3\sigma)$
Br	$X < (250-3\sigma)$	$X > (250-3\sigma)$	NA
Cr	$X < (500-3\sigma)$	$X > (500-3\sigma)$	NA

— Screening limits in mg/kg for regulated phthalates in various matrices

PHthalATES	BL	INCONCLUSIVE
DEHP	$X < 600$	$X \geq 600$
BBP	$X < 600$	$X \geq 600$
DBP	$X < 600$	$X \geq 600$
DIBP	$X < 600$	$X \geq 600$

2.2. HEAVY METAL CONTENT

Test method: With reference to EN 62321-4:2014, EN 62321-5:2014, EN 62321-7-1:2015 and EN 62321-7-2:2017, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) and UV-Vis spectrophotometer. [Reporting Limit: 2 mg/kg for Cadmium; 10 mg/kg for Hexavalent Chromium, Lead and Mercury.]

Sample No.	Result [mg/kg]			
	Total Cadmium	Hexavalent Chromium	Total Mercury	Total Lead
058	--	--	--	$2.66 \times 10^4(a)$
067	--	--	--	$2.99 \times 10^4(a)$
069	--	--	--	$2.88 \times 10^4(a)$
090	--	--	--	$1.31 \times 10^3(c)$
091	--	--	--	$1.31 \times 10^5(c)$
096	--	<10	--	--
123	--	--	--	$8.98 \times 10^3(b)$
133	--	--	--	$2.02 \times 10^5(c)$
143	--	<10	--	--
147	--	Negative	--	--
RoHS Requirement	100	1000	1000	1000

Note:

- “mg/kg” denotes milligram per kilogram
- “<” denotes less than
- “Negative” denotes the absorbance value of sample is less than the absorbance value of the 0.10 µg/cm² equivalent comparison standard solution, the sample is considered to be negative for Hexavalent Chromium.
- “--” denotes tested by XRF, result is listed in 2.1
- “(a)” denotes the exempt item according to DIRECTIVE 2011/65/EU Annex III item 6(c) “Copper alloy containing up to 4 % lead by weight”.
- “(b)” denotes the exempt item according to DIRECTIVE 2011/65/EU Annex III item 7(a) “lead in high melting temperature type solder(i. e. lead-based alloy containing 85% by weight or more lead)”.
- “(c)” denotes the exempt item according to DIRECTIVE 2011/65/EU Annex III item 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”

2.3. POLYBROMINATED BIPHENYLS (PBBs) AND POLYBROMINATED DIPHENYL ETHERS (PBDEs) CONTENT

Test Method: With reference to EN 62321-6:2015, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting Limit: 5 mg/kg]

Test Item		Result [mg/kg]		RoHS Requirement [mg/kg]
		Sample 059+068+070	Sample 078+115	
PBBs	Monobromobiphenyl	< 5	< 5	Sum of PBBs < 1000
	Dibromobiphenyl	< 5	< 5	
	Tribromobiphenyl	< 5	< 5	
	Tetrabromobiphenyl	< 5	< 5	
	Pentabromobiphenyl	< 5	< 5	
	Hexabromobiphenyl	< 5	< 5	
	Heptabromobiphenyl	< 5	< 5	
	Octabromobiphenyl	< 5	< 5	
	Nonabromobiphenyl	< 5	< 5	
	Decabromobiphenyl	< 5	< 5	
	Sum of PBBs	< 5	< 5	
PBDEs	Monobromodiphenyl Ether	< 5	< 5	Sum of PBDEs < 1000
	Dibromodiphenyl Ether	< 5	< 5	
	Tribromodiphenyl Ether	< 5	< 5	
	Tetrabromodiphenyl Ether	< 5	< 5	
	Pentabromodiphenyl Ether	< 5	< 5	
	Hexabromodiphenyl Ether	< 5	< 5	
	Heptabromodiphenyl Ether	< 5	< 5	
	Octabromodiphenyl Ether	< 5	< 5	
	Nonabromodiphenyl Ether	< 5	< 5	
	Decabromodiphenyl Ether	< 5	< 5	
	Sum of PBDEs	< 5	< 5	

Note:

- “mg/kg” denotes miligram per kilogram
- “<” denotes less than

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(Continued)

Test Item		Result [mg/kg]		RoHS Requirement [mg/kg]
		Sample 079+086+088	Sample 092+119+132	
PBBs	Monobromobiphenyl	< 5	< 5	Sum of PBBs < 1000
	Dibromobiphenyl	< 5	< 5	
	Tribromobiphenyl	< 5	< 5	
	Tetrabromobiphenyl	< 5	< 5	
	Pentabromobiphenyl	< 5	< 5	
	Hexabromobiphenyl	< 5	< 5	
	Heptabromobiphenyl	< 5	< 5	
	Octabromobiphenyl	< 5	< 5	
	Nonabromobiphenyl	< 5	< 5	
	Decabromobiphenyl	< 5	< 5	
	Sum of PBBs	< 5	< 5	
PBDEs	Monobromodiphenyl Ether	< 5	< 5	Sum of PBDEs < 1000
	Dibromodiphenyl Ether	< 5	< 5	
	Tribromodiphenyl Ether	< 5	< 5	
	Tetrabromodiphenyl Ether	< 5	< 5	
	Pentabromodiphenyl Ether	< 5	< 5	
	Hexabromodiphenyl Ether	< 5	< 5	
	Heptabromodiphenyl Ether	< 5	< 5	
	Octabromodiphenyl Ether	< 5	< 5	
	Nonabromodiphenyl Ether	< 5	< 5	
	Decabromodiphenyl Ether	< 5	< 5	
	Sum of PBDEs	< 5	< 5	

Note:

- “mg/kg” denotes miligram per kilogram
- “<” denotes less than

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Test Item		Result [mg/kg]		RoHS Requirement [mg/kg]
		Sample 093+103+107	Sample 111+122	
PBBs	Monobromobiphenyl	< 5	< 5	Sum of PBBs < 1000
	Dibromobiphenyl	< 5	< 5	
	Tribromobiphenyl	< 5	< 5	
	Tetrabromobiphenyl	< 5	< 5	
	Pentabromobiphenyl	< 5	< 5	
	Hexabromobiphenyl	< 5	< 5	
	Heptabromobiphenyl	< 5	< 5	
	Octabromobiphenyl	< 5	< 5	
	Nonabromobiphenyl	< 5	< 5	
	Decabromobiphenyl	< 5	< 5	
	Sum of PBBs	< 5	< 5	
PBDEs	Monobromodiphenyl Ether	< 5	< 5	Sum of PBDEs < 1000
	Dibromodiphenyl Ether	< 5	< 5	
	Tribromodiphenyl Ether	< 5	< 5	
	Tetrabromodiphenyl Ether	< 5	< 5	
	Pentabromodiphenyl Ether	< 5	< 5	
	Hexabromodiphenyl Ether	< 5	< 5	
	Heptabromodiphenyl Ether	< 5	< 5	
	Octabromodiphenyl Ether	< 5	< 5	
	Nonabromodiphenyl Ether	< 5	< 5	
	Decabromodiphenyl Ether	< 5	< 5	
	Sum of PBDEs	< 5	< 5	

Note:

- “mg/kg” denotes miligram per kilogram
- “<” denotes less than

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(Continued)

Test Item		Result [mg/kg]		RoHS Requirement [mg/kg]
		Sample 126+127+128	Sample 130+141	
PBBs	Monobromobiphenyl	< 5	< 5	Sum of PBBs < 1000
	Dibromobiphenyl	< 5	< 5	
	Tribromobiphenyl	< 5	< 5	
	Tetrabromobiphenyl	< 5	< 5	
	Pentabromobiphenyl	< 5	< 5	
	Hexabromobiphenyl	< 5	< 5	
	Heptabromobiphenyl	< 5	< 5	
	Octabromobiphenyl	< 5	< 5	
	Nonabromobiphenyl	< 5	< 5	
	Decabromobiphenyl	< 5	< 5	
	Sum of PBBs	< 5	< 5	
PBDEs	Monobromodiphenyl Ether	< 5	< 5	Sum of PBDEs < 1000
	Dibromodiphenyl Ether	< 5	< 5	
	Tribromodiphenyl Ether	< 5	< 5	
	Tetrabromodiphenyl Ether	< 5	< 5	
	Pentabromodiphenyl Ether	< 5	< 5	
	Hexabromodiphenyl Ether	< 5	< 5	
	Heptabromodiphenyl Ether	< 5	< 5	
	Octabromodiphenyl Ether	< 5	< 5	
	Nonabromodiphenyl Ether	< 5	< 5	
	Decabromodiphenyl Ether	< 5	< 5	
	Sum of PBDEs	< 5	< 5	

Note:

- “mg/kg” denotes miligram per kilogram
- “<” denotes less than

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(Continued)

Test Item		Result [mg/kg]	RoHS Requirement [mg/kg]
		Sample 134+140+142	
PBBs	Monobromobiphenyl	< 5	Sum of PBBs < 1000
	Dibromobiphenyl	< 5	
	Tribromobiphenyl	< 5	
	Tetrabromobiphenyl	< 5	
	Pentabromobiphenyl	< 5	
	Hexabromobiphenyl	< 5	
	Heptabromobiphenyl	< 5	
	Octabromobiphenyl	< 5	
	Nonabromobiphenyl	< 5	
	Decabromobiphenyl	< 5	
	Sum of PBBs	< 5	
PBDEs	Monobromodiphenyl Ether	< 5	Sum of PBDEs < 1000
	Dibromodiphenyl Ether	< 5	
	Tribromodiphenyl Ether	< 5	
	Tetrabromodiphenyl Ether	< 5	
	Pentabromodiphenyl Ether	< 5	
	Hexabromodiphenyl Ether	< 5	
	Heptabromodiphenyl Ether	< 5	
	Octabromodiphenyl Ether	< 5	
	Nonabromodiphenyl Ether	< 5	
	Decabromodiphenyl Ether	< 5	
	Sum of PBDEs	< 5	

Note:

- “mg/kg” denotes miligram per kilogram
- “<” denotes less than

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
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Scarlett Liang
Designated Reviewer

APPENDIX:

Photos of submitted products

	
Electric blanket (TDK(LLL*WWW)-1XC)	Foot warmer (FW210)
	
Electric blanket (TH(LL*WWW)-1XC)	Electric blanket (TX(LL*WWW)-1X)
	
Electric blanket (TDD(LL*WWW)-2DSC)	Electric blanket (TSK(LL*WWW)-1SC)

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Electric blanket (TYD(LLL*WWW)-D6C)	Heating pad (HP210)
	
Heating pad (HBNP210)	Electric blanket (TNCK(LLL*WWW)-NSC)

APPENDIX II:

According to client's declaration, tested material would be produced as relevant product(s):

TH(LLL*WWW)-1X, TH(LLL*WWW)-1XC, TH(LLL*WWW)-2X, TH(LLL*WWW)-2XC, TX(LLL*WWW)-1X, TX(LLL*WWW)-1XC, TX(LLL*WWW)-2X, TX(LLL*WWW)-2XC, TDK(LLL*WWW)-1X, TDK(LLL*WWW)-1XC, TDK(LLL*WWW)-2X, TDK(LLL*WWW)-2XC, TDK(LLL*WWW)-AXC, TSK(LLL*WWW)-1SC, TH-LLL*WW-1X, TH-LLL*WW-1XC, TH-AAA*BBB-1X, TH-AAA*BBB-1XC, TH-LLL*WWW-1X, TH-LLL*WWW-1XC, THLLL*WWW-1X, THLLL*WWW-1XC, TX120*60-1X, TX120*60-1XC, TX120*107-1X, TX120*107-1XC, TX120*130-1X, TX120*130-1XC, TX150*122-1X, TX150*122-1XC, TSK(LLL*WW)-MSC, TNCK(LLL*WWW)-NSC, TYD(LLL*WWW)-2D6C, TYD(LLL*WWW)-D6C, TYD(LLL*WWW)-2D7C, TYD(LLL*WWW)-D7C, TDD(LLL*WWW)-DSC, TDD(LLL*WWW)-2DSC, TDD(LLL*WWW)-DXC, TDD(LLL*WWW)-2DXC, HSP210, HSBP210, HBNP210, HP210, FW210, TCK(LLL*WWW)-NSC, TCK(LLL*WWW)-2NTC-A, TCK(LLL*WWW)-NTC-B, TCK(LLL*WWW)-2NTC-B, TCK(LLL*WWW)-2NTC-C