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Shenzhen YiGuangNian Innovation Technology Co., Ltd. Applicant:

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Futian District, Shenzhen, Guangdong, China

The following sample was submitted and identified by/on behalf of the client as:

Sample Name: Blackhead Remover

Model No.: XPRE037 Sample Received Date: 2017.11.03

Testing Period: 2017.11.03-2017.11.10

Test Requested: According to customer's requirements, Split the sample and determine the

Pb, Cd, Hg, Cr(VI), PBBs & PBDEs content of the parts.

Test Method: 1. Sample prepared with reference to IEC 62321-2:2013

2. Sample Screening testing with reference to IEC 62321-3-1:2013

3. Wet Chemical Test Method

a. Determination of Lead ,Cadmium by ICP-OES with reference to IEC

62321-5:2013

b. Determination of Mercury by ICP-OES with reference to IEC

62321-4:2013

c. Determination of Hexavalent Chromium in colourless and coloured corrosion-protected coatings on metals by UV-VIS method reference to

IEC 62321-7-1:2015

d. Determination of Hexavalent Chromium in polymers and electronics

by UV-Vis Method with reference to IEC 62321-7-2:2017

e. Determination of PBBs and PBDEs by GC-MS with reference to IEC

62321-6:2015

Test Result(s): Please refer to the following page(s).

Conclusion: Base upon the performed tests by submitted sample, the test results comply

with the limits as set by Directive (EU) 2015/863 - Amendment of EU RoHS

Directive 2011/65/EU (RoHS 2.0) Annex II.

Checked by

Noel Yin

Signed for and on behalf of TCT

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#### Test Result(s):

Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
		Cd	BL		Comply	
(1)	White soft	Hg	BL		Comply	Nov. 02, 2017
	plastic	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL	(-(1)	Comply	(3)
		Pb	BL		Comply	
		Cd	BL		Comply	
	Silvery color	Hg	BL		Comply	Nov. 03, 2017
2	metal	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs			NA	
		PBDEs		7	NA	
	(0)	Pb	BL	(0)	Comply	
		Cd	BL		Comply	
2	NAME OF THE PROPERTY.	Hg	BL		Comply	Nov. 03, 2017
3	White plastic	Cr(VI)	BL		Comply	Nov. 06, 2017
		PBBs	IN	N.D.	Comply	
		PBDEs	IN	N.D.	Comply	
	(C)	Pb C	BL	<del>(</del> C))	Comply	
		Cd	BL		Comply	
4	Silvery color	Hg	BL		Comply	Nov. 02, 2047
4	metal pin	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs			NA	
		PBDEs			NA	
		Pb	BL	T.C.	Comply	
		Cd	BL		Comply	
5	Solder	Hg	BL		Comply	Nov. 03, 2017
Ü	Suidel	Cr(VI)	BL	·	Comply	
100		PBBs			NA	(6)
		PBDEs			NA	



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Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
		Cd	BL		Comply	
6	White plastic	Hg	BL		Comply	Nov. 02, 2017
0	cable jacket	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL		Comply	(3)
		Pb	BL		Comply	
7		Cd	BL		Comply	
	Pink plastic	Hg	BL		Comply	Nov. 02, 2017
	jacket	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL	7	Comply	
	(60)	Pb	BL	KO	Comply	
		Cd	BL		Comply	Nov. 03, 2017
0	Yellow plastic	Hg	BL		Comply	
8	jacket	Cr(VI)	BL		Comply	NOV. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
	((3))	Pb C	BL	<del>(</del> C)	Comply	
		Cd	BL		Comply	
_	Cyan plastic	Hg	BL		Comply	Nov. 02, 2047
9	jacket	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb	BL	<del>(</del> 6)	Comply	(2)
		Cd	BL		Comply	
10	White plastic	Hg	BL		Comply	Nov. 03, 2017
10	jacket	Cr(VI)	BL		Comply	
KO)		PBBs	BL		Comply	
		PBDEs	BL		Comply	



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Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
	Copper color	Cd	BL		Comply	
11	Copper color	Hg	BL		Comply	Nov. 02, 2017
	metal wire	Cr(VI)	BL		Comply	Nov. 03, 2017
	core	PBBs			NA	
		PBDEs		<del>(-</del> (1)	NA	(3)
		Pb	BL		Comply	
		Cd	BL		Comply	
12	Silvery color	Hg	BL		Comply	Nov. 03, 2017
	metal	Cr(VI)	IN	N.D.	Comply	Nov. 06, 2017
		PBBs			NA	
		PBDEs		7	NA	
	(60)	Pb	BL	KO	Comply	
		Cd	BL		Comply	
13	Silvery color	Hg	BL		Comply	Nov. 03, 2017
13	metal pin	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs			NA	
		PBDEs			NA	
	(C)	Pb C	BL	<del>(</del> C)	Comply	
		Cd	BL		Comply	
14	Digal, plantin	Hg	BL		Comply	Nov. 02, 2017
14	Black plastic	Cr(VI)	BL	·	Comply	Nov. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb C	BL	<del>(</del> (3)	Comply	(5)
		Cd	BL		Comply	
15	Solder	Hg	BL		Comply	Nov. 03, 2017
10		Cr(VI)	BL		Comply	1404. 03, 2017
10		PBBs			NA	
		PBDEs			NA	



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Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
16	Transparent soft plastic	Pb Cd Hg Cr(VI)	BL BL BL		Comply Comply Comply Comply	Nov. 03, 2017
	(3)	PBBs PBDEs	BL BL		Comply Comply	(A)
17	Silvery color metal	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL IN 	  N.D. 	Comply Comply Comply NA NA	Nov. 03, 2017 Nov. 06, 2017
18	Silvery color metal	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL IN	  N.D. 	Comply Comply Comply NA NA	Nov. 03, 2017 Nov. 06, 2017
19	White plastic with pink coating	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL	  	Comply Comply Comply Comply Comply Comply	Nov. 03, 2017
20	White plastic	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL	  	Comply Comply Comply Comply Comply Comply	Nov. 03, 2017



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Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
21	Grey soft plastic	Pb Cd Hg Cr(VI)	BL BL BL BL		Comply Comply Comply Comply	Nov. 03, 2017
	pidotio	PBBs PBDEs	BL BL		Comply Comply	(d)
22	Black foam	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL	    	Comply Comply Comply Comply Comply Comply	Nov. 03, 2017
23	Silvery color metal screw	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL 	  	Comply Comply Comply NA NA	Nov. 03, 2017
24	Copper color enamelled wire	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL	   	Comply Comply Comply Comply Comply	Nov. 03, 2017
25	Silvery color metal	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL 	<u>((</u> )	Comply Comply Comply Comply NA NA	Nov. 03, 2017



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Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
		Cd	BL		Comply	
26	Black plastic	Hg	BL		Comply	Nov. 03, 2017
	Black plactic	Cr(VI)	BL		Comply	
		PBBs	BL		Comply	
	(,c')	PBDEs	BL		Comply	
		Pb	BL		Comply	
		Cd	BL		Comply	
27	Copper color	Hg	BL		Comply	Nov. 03, 2017
20	metal pin	Cr(VI)	BL		Comply	1404. 03, 2017
		PBBs			NA	
		PBDEs		7	NA	
	(6)	Pb	BL	(40)	Comply	
	Dlook	Cd	BL		Comply	
20	Black	Hg	BL		Comply	Nov. 02, 2017
28	electronic	Cr(VI)	BL	)	Comply	Nov. 03, 2017
	component	PBBs	BL		Comply	
		PBDEs	BL		Comply	
	(,c')	Pb C	BL	<del>(</del> C)	Comply	(0)
	Dist	Cd	BL		Comply	
00	Black	Hg	BL		Comply	
29	electronic	Cr(VI)	BL		Comply	Nov. 03, 2017
	component	PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb	BL		Comply	
		Cd	BL		Comply	
	Brown	Hg	BL		Comply	Nov. 03, 2017
30	capacitor	Cr(VI)	BL		Comply	
(C)	-	PBBs	BL		Comply	(C)
		PBDEs	BL		Comply	



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Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
	Black	Cd	BL		Comply	
24		Hg	BL		Comply	Nov. 02, 2017
31	electronic	Cr(VI)	BL		Comply	Nov. 03, 2017
	component	PBBs	BL		Comply	
		PBDEs	BL	<del>(-</del> (1)	Comply	(2)
		Pb	BL		Comply	
		Cd	BL		Comply	
20	Solder	Hg	BL		Comply	Nov. 02, 2047
32		Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs			NA	
		PBDEs		73	NA	
	(0)	Pb (	BL	(0)	Comply	(0)
		Cd	BL		Comply	
20	O DOD	Hg	BL		Comply	Nov. 03, 2017
33	Green PCB	Cr(VI)	BL		Comply	Nov. 06, 2017
		PBBs	IN	N.D.	Comply	
		PBDEs	IN	N.D.	Comply	
	(c)	Pb (C)	BL	<del>(</del> ,C)	Comply	
		Cd	BL		Comply	
24	Dod plantic	Hg	BL		Comply	Nav. 00, 0047
34	Red plastic	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb	BL	+-(1)	Comply	
		Cd	BL		Comply	
25	\\/\aita1+:-	Hg	BL		Comply	N. 00 00 :=
35	White plastic	Cr(VI)	BL		Comply	Nov. 03, 2017
KO.		PBBs	BL		Comply	
		PBDEs	BL		Comply	



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Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
	Plack plactic	Cd	BL		Comply	
26	Black plastic	Hg	BL		Comply	Nov. 02, 2017
36	with white	Cr(VI)	BL		Comply	Nov. 03, 2017
	coating	PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb	BL		Comply	
	VA/Inita valantin	Cd	BL		Comply	
27	White plastic with pink	Hg	BL		Comply	Nov 03 2017
37		Cr(VI)	BL		Comply	Nov. 03, 2017
	coating	PBBs	BL		Comply	
		PBDEs	BL	7 4	Comply	
	(0)	Pb	BL	(0)	Comply	(0)
		Cd	BL		Comply	
20	\\	Hg	BL		Comply	Na. 02 2047
38	White foam	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
	(c)	Pb C	BL	<del>(</del> ,C)	Comply	
		Cd	BL		Comply	
20	White soft	Hg	BL		Comply	Nov. 02, 2047
39	plastic	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb	BL	<del>(</del> 6)	Comply	(2)
		Cd	BL		Comply	
40	White soft	Hg	BL		Comply	N. 00 0047
40	plastic	Cr(VI)	BL		Comply	Nov. 03, 2017
10		PBBs	BL		Comply	
		PBDEs	BL		Comply	



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Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
		Cd	BL		Comply	
41	White LED	Hg	BL		Comply	Nov. 03, 2017
4.	Wille LLD	Cr(VI)	BL		Comply	Nov. 06, 2017
		PBBs	IN	N.D.	Comply	
		PBDEs	IN	N.D.	Comply	
		Pb	BL		Comply	
		Cd	BL		Comply	
42	Solder	Hg	BL		Comply	Nov. 03, 2017
42	Soldel	Cr(VI)	BL		Comply	NOV. 03, 2017
		PBBs			NA	
		PBDEs		7	NA	
		Pb	BL	<u>[</u>	Comply	
	Transparent	Cd	BL		Comply	
43	Transparent	Hg	BL		Comply	Nov. 02, 2017
43	soft plastic	Cr(VI)	BL		Comply	Nov. 03, 2017
	tube	PBBs	BL		Comply	
		PBDEs	BL		Comply	
	(c)	Pb C	BL	<del>(</del> C)	Comply	(C)
		Cd	BL		Comply	
4.4	VA/Inita valgatia	Hg	BL		Comply	No.: 00 0047
44	White plastic	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb	BL	+-(1)	Comply	
		Cd	BL		Comply	
45	Copper color	Hg	BL		Comply	No. 00 0047
45	enamelled	Cr(VI)	BL		Comply	Nov. 03, 2017
10	wire	PBBs	BL		Comply	(0)
		PBDEs	BL		Comply	



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Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
		Cd	BL		Comply	
46	Croom plactic	Hg	BL		Comply	Nov. 02, 2017
46	Cream plastic	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL		Comply	(2)
		Pb	BL		Comply	
		Cd	BL		Comply	
47	Black soft	Hg	BL		Comply	Nov. 03, 2017
	plastic	Cr(VI)	BL		Comply	
		PBBs	BL		Comply	
		PBDEs	BL	73	Comply	
	(0)	Pb	BL	(0)	Comply	(0)
		Cd	BL		Comply	
40	VA/India India I	Hg	BL		Comply	Na.: 00 0047
48	White label	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
	((0)	Pb (C	BL	<del>(</del> ,C)	Comply	
		Cd	BL		Comply	
40	O a lala a	Hg	BL		Comply	Nav. 00, 0047
49	Solder	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs			NA	
		PBDEs			NA	
	(6)	Pb	BL	<del>(</del> 6)	Comply	[3]
		Cd	BL		Comply	
E0	\\/bito =leetic	Hg	BL		Comply	Nov. 03, 2017
50	White plastic	Cr(VI)	BL		Comply	
KO)		PBBs	BL		Comply	
		PBDEs	BL		Comply	



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Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
		Cd	BL		Comply	
51	Silvery color	Hg	BL		Comply	Nov. 03, 2017
31	metal	Cr(VI)	IN	N.D.	Comply	Nov. 06, 2017
		PBBs			NA	
		PBDEs		-(3)	NA	
		Pb	BL		Comply	
		Cd	BL		Comply	
F0	White plastic	Hg	BL		Comply	Nov. 00, 0047
52		Cr(VI)	BL	<i></i>	Comply	Nov. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL	<del>-7</del>	Comply	
	(0)	Pb	BL	(0)	Comply	(0)
		Cd	BL		Comply	
<b>E0</b>	Black soft	Hg	BL		Comply	Nov. 03, 2017
53	plastic	Cr(VI)	BL		Comply	
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
	(,c)	Pb C	BL	-4,0	Comply	(c)
		Cd	BL		Comply	
- 4	Silvery color	Hg	BL		Comply	
54	metal	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs			NA	
		PBDEs			NA	
		Pb	BL	(3)	Comply	
		Cd	BL		Comply	
	Silvery color	Hg	BL		Comply	No. 00 0047
55	metal	Cr(VI)	BL		Comply	Nov. 03, 2017
PO.		PBBs	60		NA	(C)
		PBDEs			NA	



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Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
		Cd	BL		Comply	
56	Black rubber	Hg	BL		Comply	Nov. 02, 2017
50	magnet	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs	BL		Comply	
	(6)	PBDEs	BL	<del>-(</del> -())	Comply	(6)
		Pb	BL		Comply	
		Cd	BL		Comply	
		Hg	BL		Comply	
57	Cream plastic	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL	<del></del>	Comply	
	((0))	Pb	BL	<u>(C)</u>	Comply	
		Cd	BL		Comply	
671	White soft	Hg	BL		Comply	Nov. 03, 2017
58	plastic	Cr(VI)	BL		Comply	
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb	BL	- <del>(</del> , C <sup>(</sup> )	Comply	(6)
		Cd	BL		Comply	
	Copper color	Hg	BL		Comply	
59	metal	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs			NA	
		PBDEs			NA	
		Pb	BL	-+6	Comply	
		Cd	BL		Comply	
0.0	Silvery color	Hg	BL		Comply	Nov. 03, 2017
60	metal	Cr(VI)	IN /	N.D.	Comply	Nov. 06, 2017
RO.		PBBs	60	·)	NA	(6)
		PBDEs			NA	



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Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
		Cd	BL		Comply	
61	Silvery color	Hg	BL		Comply	Nov. 03, 2017
01	metal	Cr(VI)	IN	N.D.	Comply	Nov. 06, 2017
		PBBs			NA	
		PBDEs		+(3)	NA	(5)
		Pb	BL		Comply	
		Cd	BL		Comply	
00	Orac relaction	Hg	BL		Comply	Nov. 02, 2017
62	Grey plastic	Cr(VI)	BL	)	Comply	Nov. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL	7/4	Comply	
	(0)	Pb	BL	(0)	Comply	(0)
		Cd	BL		Comply	
00	5	Hg	BL		Comply	No. 00 0047
63	Black plastic	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb	BL	-(,0)	Comply	
		Cd	BL		Comply	
64	Silvery color	Hg	BL		Comply	N 00 0047
	metal	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs			NA	
		PBDEs			NA	
		Pb	BL	(3)	Comply	
65		Cd	BL		Comply	
	Disales	Hg	BL		Comply	Nov. 00, 0047
	Black ceramic	Cr(VI)	BL		Comply	Nov. 03, 2017
KO.		PBBs	BL		Comply	KO.
		PBDEs	BL		Comply	



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Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
		Cd	BL		Comply	
CC	Mbita plactic	Hg	BL		Comply	Nov. 02, 2017
66	White plastic	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL	<del>-(</del> -())	Comply	
		Pb	BL		Comply	
		Cd	BL		Comply	
07	Copper color metal	Hg	BL		Comply	N: 00 0047
67		Cr(VI)	BL	)	Comply	Nov. 03, 2017
		PBBs			NA	
		PBDEs		<del>-</del> 7	NA	
	(0)	Pb	BL	(0)	Comply	
	0	Cd	BL		Comply	
00	Copper color	Hg	BL		Comply	N: 00 0047
68	enamelled	Cr(VI)	BL		Comply	Nov. 03, 2017
	wire	PBBs	BL		Comply	
		PBDEs	BL		Comply	
	((3))	Pb C	BL	-(,0')	Comply	(C)
		Cd	BL		Comply	
00	Caldan	Hg	BL		Comply	Nov. 02, 2047
69	Solder	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs			NA	
		PBDEs			NA	
		Pb	BL	-(6)	Comply	
	Cilvery solo-	Cd	BL		Comply	
70	Silvery color	Hg	BL		Comply	Nov 02 2047
70	metal wire	Cr(VI)	BL		Comply	Nov. 03, 2017
(0)	core	PBBs	60		NA	
		PBDEs			NA	



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Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
		Cd	BL		Comply	
71	Black plastic	Hg	BL		Comply	Nov 03 2017
	jacket	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb	BL		Comply	
		Cd	BL		Comply	
70	Black plastic	Hg	BL		Comply	Nov. 02, 2017
72	jacket	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL	7 4	Comply	
	(0)	Pb	BL	(0)	Comply	(0)
		Cd	BL		Comply	
70	Red plastic	Hg	BL		Comply	No.: 00 0047
73	jacket	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
	((3))	Pb C	BL	<del>(</del> ,C)	Comply	(0)
		Cd	BL		Comply	
74	Red plastic	Hg	BL		Comply	Nov. 02, 2047
74	jacket	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb	BL	7-6	Comply	(3)
		Cd	BL		Comply	
75	Diods to are	Hg	BL		Comply	Nov. 02, 2047
75	Black foam	Cr(VI)	BL		Comply	Nov. 03, 2017
10		PBBs	BL		Comply	
		PBDEs	BL		Comply	



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Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
		Cd	BL		Comply	
76	Green LED	Hg	BL	)	Comply	Nov. 02, 2017
70	Green LED	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb	BL		Comply	
		Cd	BL		Comply	
77	Copper color	Hg	BL		Comply	Nov. 00, 0047
77	metal	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs			NA	
		PBDEs		7	NA	
	(0)	Pb	BL	(0)	Comply	(0)
		Cd	BL		Comply	
70	Silvery color	Hg	BL		Comply	Nov. 03, 2017
78	metal	Cr(VI)	IN.	N.D.	Comply	Nov. 06, 2017
		PBBs			NA	
		PBDEs			NA	
	((3))	Pb C	BL	<del>(</del> ,C)	Comply	$(\mathcal{O})$
		Cd	BL		Comply	
70	Disalentatio	Hg	BL		Comply	Nov. 02, 2047
79	Black plastic	Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb	BL	<del>(</del> 6)	Comply	(3)
	Plade	Cd	BL		Comply	
00	Black	Hg	BL		Comply	Nov. 02, 2047
80	electronic	Cr(VI)	BL	·	Comply	Nov. 03, 2017
10	component	PBBs	BL	<i></i>	Comply	
		PBDEs	BL		Comply	



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Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
81	Black electronic component	Pb Cd Hg Cr(VI)	BL BL BL	 ) 	Comply Comply Comply	Nov. 03, 2017
		PBBs PBDEs	BL BL		Comply Comply	
82	Brown capacitor	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL		Comply Comply Comply Comply Comply Comply	Nov. 03, 2017
83	Black electronic component	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN	  N.D. N.D.	Comply Comply Comply Comply Comply Comply	Nov. 03, 2017 Nov. 06, 2017
84	Black electronic component	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL		Comply Comply Comply Comply Comply Comply Comply	Nov. 03, 2017
85	Black electronic component	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL		Comply Comply Comply Comply Comply	Nov. 03, 2017



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Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
	Disak	Cd	BL		Comply	
20	Black	Hg	BL		Comply	N. 00 0047
86	electronic	Cr(VI)	BL		Comply	Nov. 03, 2017
	component	PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb	BL		Comply	
		Cd	BL		Comply	
	Solder	Hg	BL		Comply	6
87		Cr(VI)	BL	) 	Comply	Nov. 03, 2017
		PBBs			NA	
		PBDEs		7/	NA	
	((0))	Pb	OL <sup>®</sup>	<u>(40)</u>	Comply	(0)
		Cd	BL		Comply	
	Red diode	Hg	BL		Comply	
88		Cr(VI)	BL		Comply	Nov. 03, 2017
		PBBs	BL		Comply	
		PBDEs	BL		Comply	
		Pb C	BL	40	Comply	(C)
		Cd	BL		Comply	
(P)	<b>.</b>	Hg	BL		Comply	
89 <sup>(R)</sup>	Solder	Cr(VI)	BL		Comply	Nov. 08, 2018
		PBBs			NA	
		PBDEs			NA	
		Pb	BL		Comply	
		Cd	BL		Comply	
00	0	Hg	BL		Comply	Nov. 03, 2017
90	Green PCB	Cr(VI)	BL		Comply	Nov. 06, 2017
		PBBs	IN	N.D.	Comply	(6)
		PBDEs	IN	N.D.	Comply	



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Part No.	Part Description	Restricted Substances	Result of EDXRF (1)	Result of Chemical Testing (2) (mg/kg)	Conclusion on RoHS	Data Submitted / Resubmitted Date
		Pb	BL		Comply	
		Cd	BL		Comply	
91	White soft plastic	Hg	BL	)	Comply	Nov. 03, 2017
91		Cr(VI)	BL		Comply	
		PBBs	BL		Comply	
	(3)	PBDEs	BL		Comply	
		Pb	BL		Comply	
		Cd	BL		Comply	
92	Plack coromic	Hg	BL		Comply	Nov. 03, 2017
92	Black ceramic	Cr(VI)	BL		Comply	
		PBBs	BL		Comply	
		PBDEs	BL	73	Comply	





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#### Remark:

(1) (a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr<sup>6+</sup>.

(b)Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr<sup>6+</sup>) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC62321-3-1:2013 (unit: mg/kg)

Ele	ement	Polymer	Metal	Composite Materials
	Cd	BL≤(70-3σ) <x<(130+3σ)< td=""><td>BL≤(70-3σ)<x<(130+3σ)< td=""><td>LOD-V-(450+2~)-(01</td></x<(130+3σ)<></td></x<(130+3σ)<>	BL≤(70-3σ) <x<(130+3σ)< td=""><td>LOD-V-(450+2~)-(01</td></x<(130+3σ)<>	LOD-V-(450+2~)-(01
	Cd	≤OL	≤OL	LOD <x<(150+3σ) td="" ≤ol<=""></x<(150+3σ)>
	Dh	BL≤(700-3σ) <x<(1300+3σ)< td=""><td>BL≤(700-3σ)<x<(1300+3σ< td=""><td>BL≤(500-3σ)<x<(1500+< td=""></x<(1500+<></td></x<(1300+3σ<></td></x<(1300+3σ)<>	BL≤(700-3σ) <x<(1300+3σ< td=""><td>BL≤(500-3σ)<x<(1500+< td=""></x<(1500+<></td></x<(1300+3σ<>	BL≤(500-3σ) <x<(1500+< td=""></x<(1500+<>
	Pb	≤OL	) ≤OL	3σ) ≤OL
	IIa (	BL≤(700-3σ) <x<(1300+3σ)< td=""><td>BL≤(700-3σ)<x<(1300+3σ< td=""><td>BL≤(500-3σ)<x<(1500+< td=""></x<(1500+<></td></x<(1300+3σ<></td></x<(1300+3σ)<>	BL≤(700-3σ) <x<(1300+3σ< td=""><td>BL≤(500-3σ)<x<(1500+< td=""></x<(1500+<></td></x<(1300+3σ<>	BL≤(500-3σ) <x<(1500+< td=""></x<(1500+<>
	Hg	≤OL	) ≤OL	3σ) ≤OL
	Br	BL≤(300-3σ) <x< td=""><td></td><td>BL≤(250-3σ)<x< td=""></x<></td></x<>		BL≤(250-3σ) <x< td=""></x<>
	Cr	BL≤(700-3σ) <x< td=""><td>BL≤(700-3σ)<x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<></td></x<>	BL≤(700-3σ) <x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<>	BL≤(500-3σ) <x< td=""></x<>

- (c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection,
  - -- = Not Regulated, NA = Not Applicable.
  - (d) The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (2)(a) 1mg/kg = 1ppm = 0.0001%, N.D.= Not Detected (<MDL), --- = Not Conducted.
  - (b) Unit and Method Detection Limit (MDL) in wet chemical test

Test Items	Pb	Cd	Hg
Units	mg/kg	mg/kg	mg/kg
MDL	2	2	2

The MDL for single compound of PBBs & PBDEs is 5 mg/kg and MDL of Cr<sup>6+</sup> for polymer & composite sample is 2 mg/kg.

- (c) When  $Cr^{6+}$  for metal sample is testing according to IEC 62321-7-1:2015, the unit is  $\mu g/cm^2$ , and the MDL is 0,10  $\mu g/cm^2$ . When the Cr (VI) concentration is > the 0,13  $\mu g/cm^2$ , the sample is positive for Cr(VI) and considered to contain Cr(VI); when the Cr (VI) concentration is N.D.(< the 0,10  $\mu g/cm^2$ ), the sample is negative for Cr(VI) and considered a non-Cr(VI) based coating; when the Cr (VI) concentration is  $\geq$  the 0,10  $\mu g/cm^2$  and  $\leq$  the 0,13  $\mu g/cm^2$ , the result is considered to be inconclusive Unavoidable coating variations may influence the determination.
- (d) RoHS Exemption: 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
  - (R)=Re-submitted sample.



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(3) The maximum permissible limit is quoted from the Directive (EU) 2015/863 - Amendment of EU RoHS Directive 2011/65/EU (RoHS 2.0) Annex II.

RoHS Restricted Substances	Maximum Concentration Value (by weight in homogenous materials)  0.1%		
Lead (Pb)			
Cadmium (Cd)	0.01%		
Mercury (Hg)	0.1%		
Hexavalent Chromium (Cr VI)	0.1%		
Polybrominated biphenyls (PBBs)	0.1%		
Polybrominated diphenylethers (PBDEs)	0.1%		





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#### **RoHS Exemptions**

Exemptions	
RoHS Directive 2011/65/EU ANNEX III	(0)
Exemption Items	Expires Date
Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):	
1(a), For general lighting purposes < 30 W:3.5 mg	2,5 mg shall be used per burner after 31 December 2012
1(b), For general lighting purposes≥ 30 W and < 50W:3.5mg	
1(c), For general lighting purposes ≥ 50 W and < 150 W: 5 mg	
1(d), For general lighting purposes ≥ 150 W: 15 mg	
1(e), For general lighting purposes with circular or square structural shape and tube diameter ≤ 17 mm: 7 mg	
1(f), For special purposes: 5 mg	
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 < 9 mm (e.g. T2): 4 mg	
2(a)(2), Tri-band phosphor with normal lifetime and a tube diameter ≥ 9 mm and ≤ 17 mm (e.g. T5): 3 mg	(c) (c
2(a)(3), Tri-band phosphor with normal lifetime and a tube diameter > 17 mm and ≤ 28 mm (e.g. T8):3.5mg	
2(a)(4), Tri-band phosphor with normal lifetime and a tube diameter > 28 mm (e.g. T12): 5 mg	Expires on 31 December 2012; 3,5 mg may be used per lamp after 31 December 2012
2(a)(5), Tri-band phosphor with long lifetime (≥ 25 000 h): 5 mg	
2(b), Mercury in other fluorescent lamps not exceeding (per lamp):	(3)
2(b)(2), Non-linear halophosphate lamps (all diameters): 15 mg	Expires on 13 April 2016
2(b)(3), Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9):15mg	
2(b)(4), Lamps for other general lighting and special purposes (e.g. induction lamps):15mg	(0)
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 (≤500 mm):3.5mg	(0)
3(b), Medium length (> 500 mm and ≤ 1 500 mm):5mg	
3(c), Long length (> 1 500 mm):13mg	
4(a), Mercury in other low pressure discharge lamps (per lamp):15mg	
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 ≤155 W:30mg	
4(b) -II, 155 W < P ≤ 405 W:40mg	
4(b) -III, P > 405 W:40mg	101
4(c), Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):	
4(c)-I, P ≤ 155 W:25mg	



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Exemptions	
RoHS Directive 2011/65/EU ANNEX III	
Exemption Items	Expires Date
4(c)-II, 155 W < P ≤ 405 W:30mg	Expires Date
4(c)-III, P > 405 W:40mg	
4(d), Mercury in High Pressure Mercury (vapour) lamps (HPMV)	Expires on 13 April 2015
4(e), Mercury in metal halide lamps (MH)	Explics on 19 April 2015
4(f), Mercury in other discharge lamps for special purposes not	
specifically mentioned in this Annex	
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	(0)
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	((0))
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 125 V AC or 250 V DC or higher	
7(c)-III, Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC	Expires on 1 January 2013 and after that date may be
	used in spare parts for EEE
	placed on the market before 1
7(c)-IV, Lead in PZT based dielectric ceramic materials for capacitors	January 2013 Expires on 21 July 2016
being part of integrated circuits or discrete semiconductors	Lapites of 21 July 2016
8(a), Cadmium and its compounds in one shot pellet type thermal	Expires on 1 January 2012
cut-offs	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 anticorrosion agent of the carbon steel	(A)
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	(c)
(HVACR) applications	
(HVACR) applications	
	May be used in spare parts for EEE placed on the market before 24 September 2010

Shenzhen TCT Testing Technology Co., Ltd.
1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



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Exemptions						
RoHS Directive 2011/65/EU ANNE	X III					
Exemption I	tems	<del>(C)</del>	Expi	res Date		
11(b), Lead used in other than C-pre systems		n connector	Expires on 1 and after that used in spare	January 2013 date may be parts for EEE market before		
12, Lead as a coating material for the C-ring	May be used in spare parts for EEE placed on the market before 24 September 2010					
13(a), Lead in white glasses used fo	r optical applica	ations	(.G.)			
13(b), Cadmium and lead in filter gla reflectance standards						
14, Lead in solders consisting of more than two elements for the connection between the pins and the package of micropro-cessors with a lead content of more than 80 % and less than 85 % by weight			and after that used in spare placed on the	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 via semiconductor die and carrier within packages			(C)	(		
16, Lead in linear incandescent lamp	s with silicate	coated tubes	Expires on 1	September 201		
17, Lead halide as radiant agent in hall lamps used for professional reprogra						
18(b), Lead as activator in the fluore or less) of discharge lamps when us containing phosphors such as BSP (	scent powder ( ed as sun tann	1 % lead by weight		(0)		
21, Lead and cadmium in printing inlonglasses, such as borosilicate and	ks for the applic					
23, Lead in finishes of fine pitch components other than connectors with a pitch of 0,65 mm and less			May be used in spare parts for EEE placed on the market before 24 September 2010			
24, Lead in solders for the soldering discoidal and planar array ceramic n						
25, Lead oxide in surface conduction used in structural elements, notably						
29, Lead bound in crystal glass as d 3 and 4) of Council Directive 69/493/		( I (Categories 1, 2,				
30, Cadmium alloys as electrical/me conductors located directly on the vohigh-powered loudspeakers with sou and more	ice coil in trans	ducers used in		K		
31, Lead in soldering materials in me (which e.g. are used for liquid crysta lighting)	l displays, desi	gn or industrial				
32, Lead oxide in seal frit used for m Argon and Krypton laser tubes						
33, Lead in solders for the soldering diameter and less in power transform	ners		(0)			
34, Lead in cermet-based trimmer po	otentiometer ele	ements				



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Exemptions						
RoHS Directive 2011/65/EU ANNEX III						
Exemption Items	Expires Date	10				
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	(3)					
39, Cadmium in colour converting II-VI LEDs (< 10 µg Cd per mm <sup>2</sup> of light-emitting area) for use in solid state illumination or display systems	Expires on 1 July 2014					
40, Cadmium in photoresistors for analogue optocouplers applied in professional audio equipment	Expires on 31 December 2013					

Note: 1. (1) OJ L 326, 29.12.1969, p.36.

2. For the purposes of Directive 2011/65/EU, a maximum concentration value of 0,1 % by weight in homogeneous materials for lead, mercury, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE) and of 0,01 % by weight in homogeneous materials for cadmium shall be tolerated.

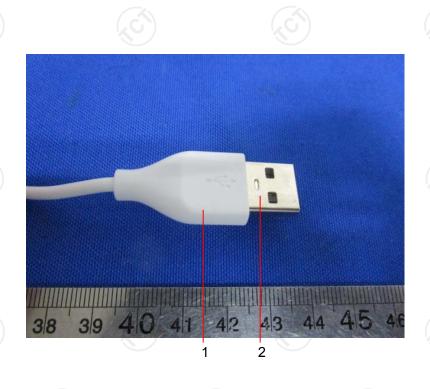




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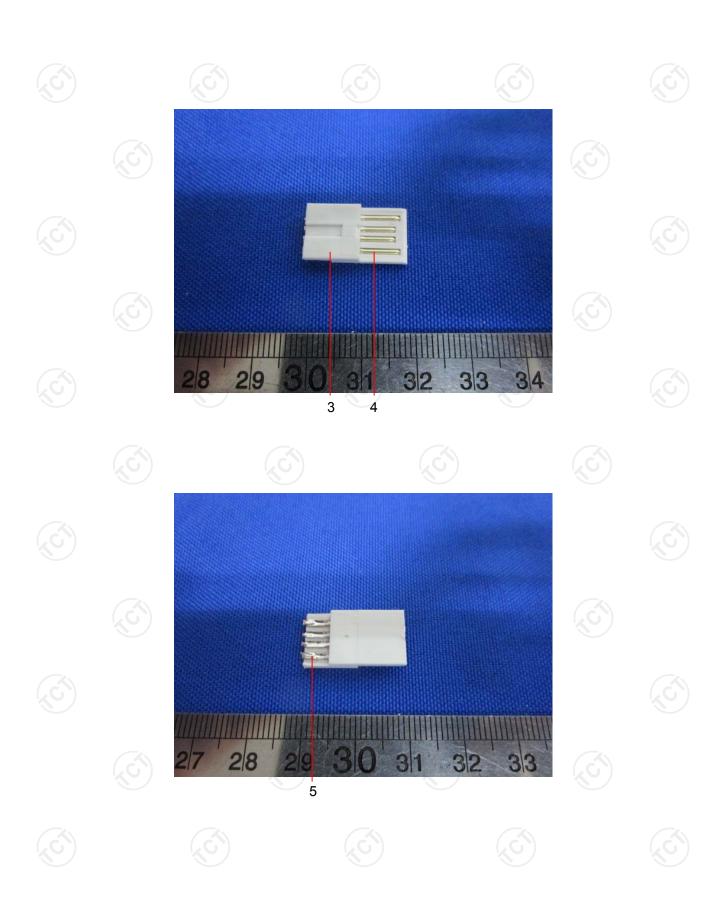
#### Photo(s) of the sample(s)





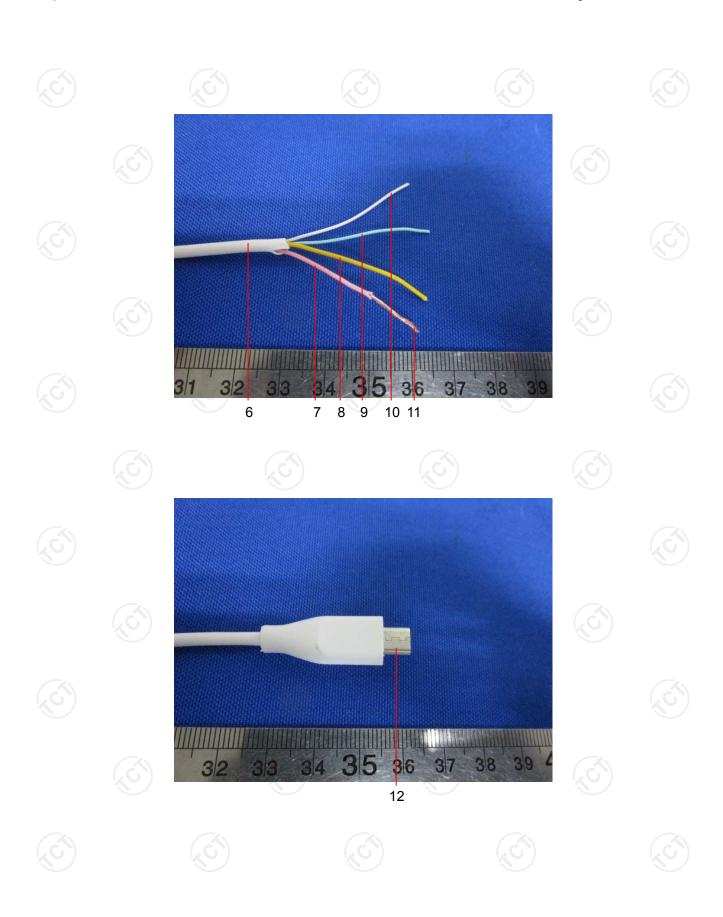


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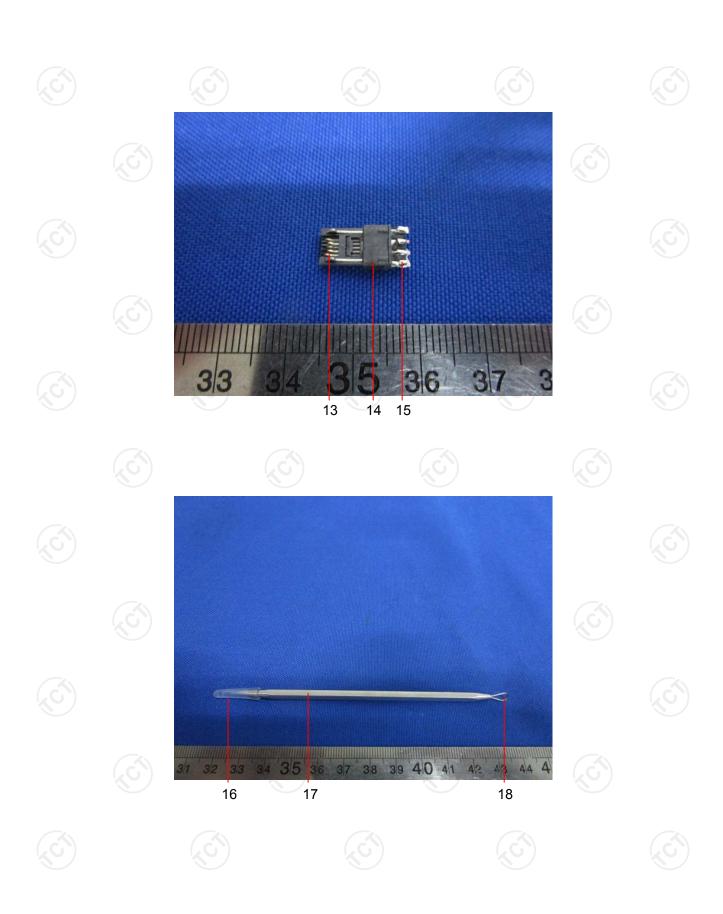


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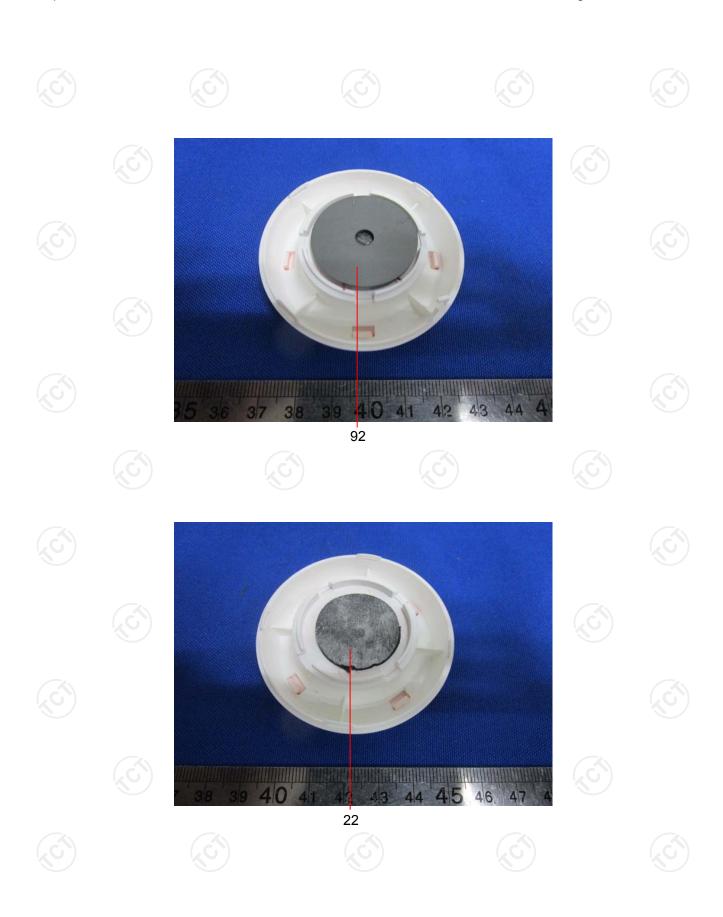


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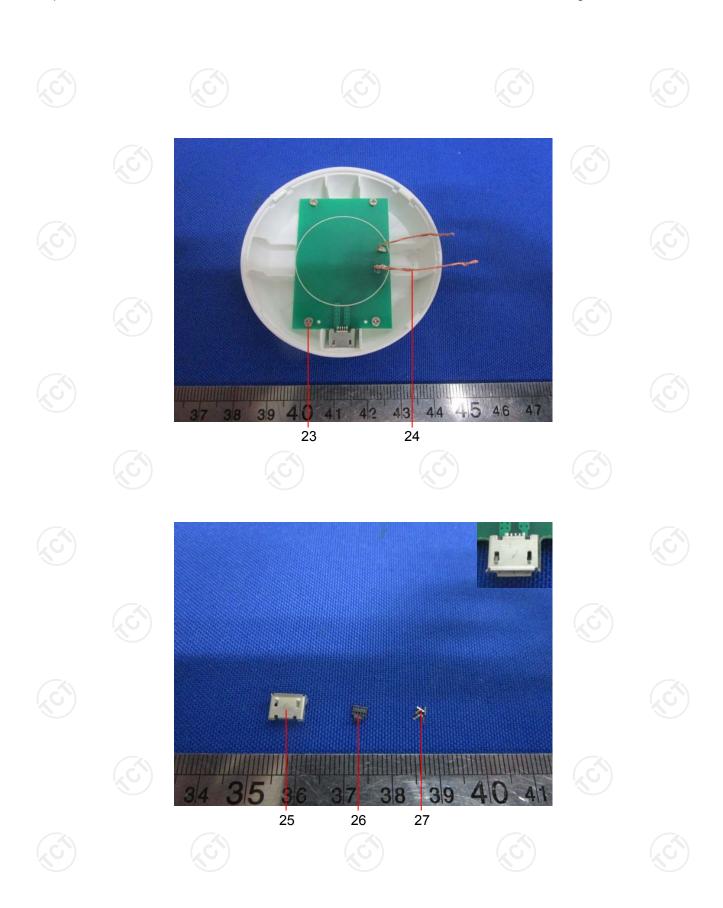


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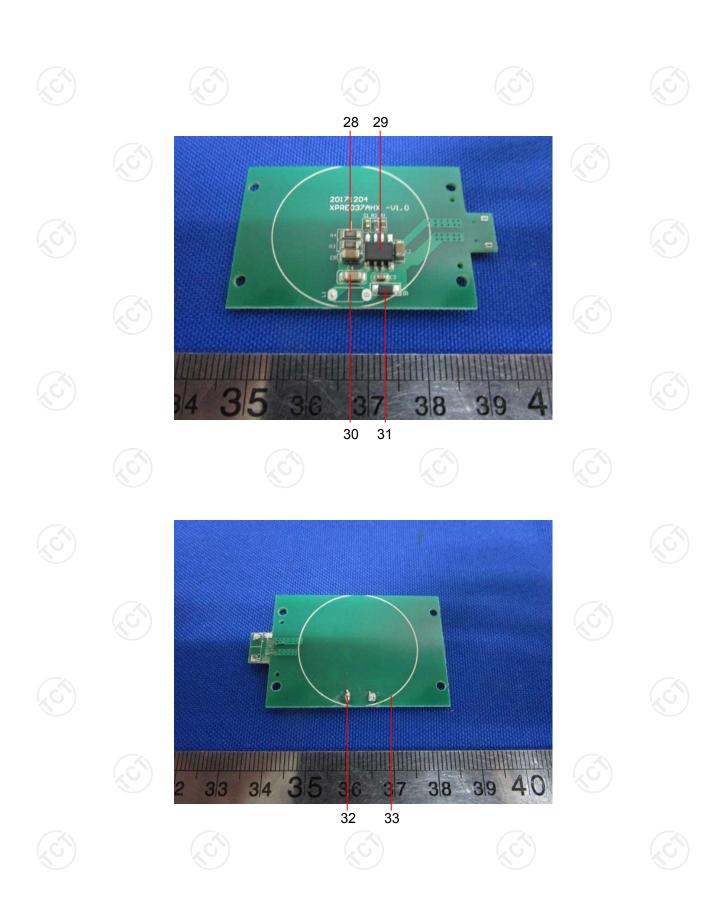


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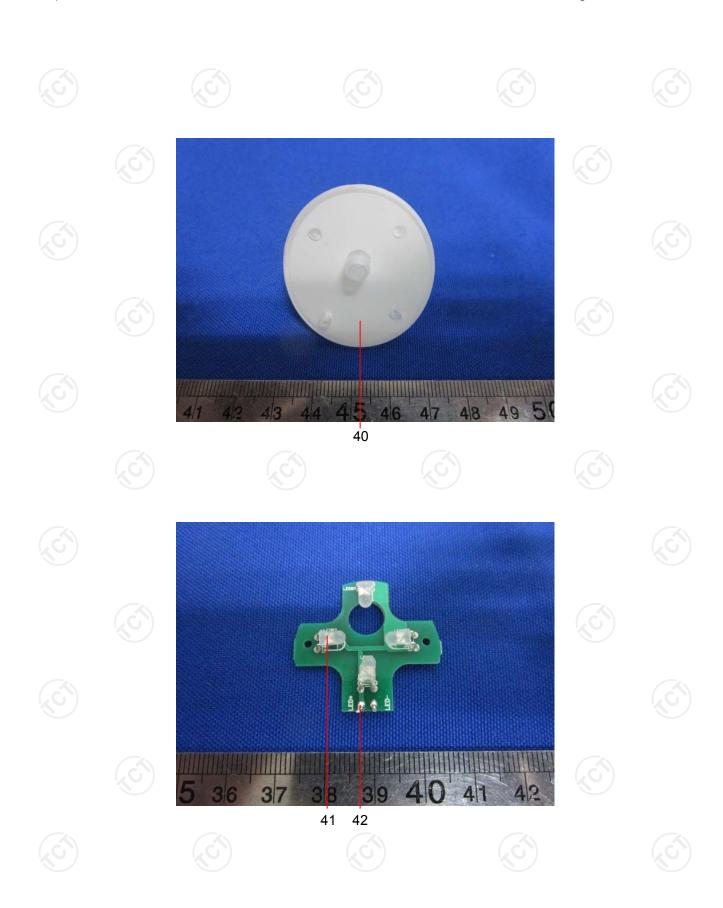


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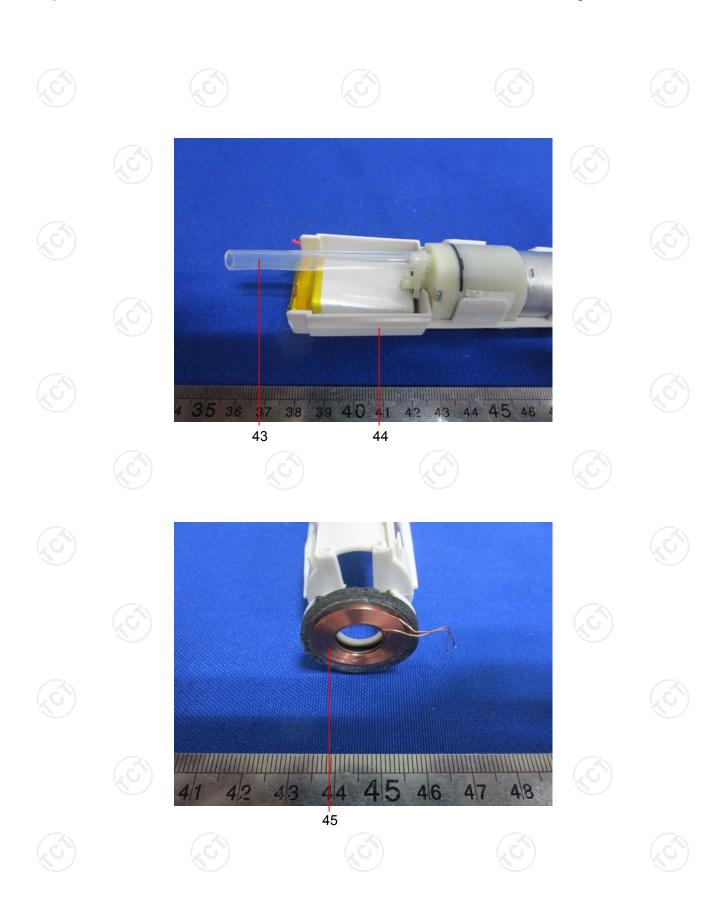


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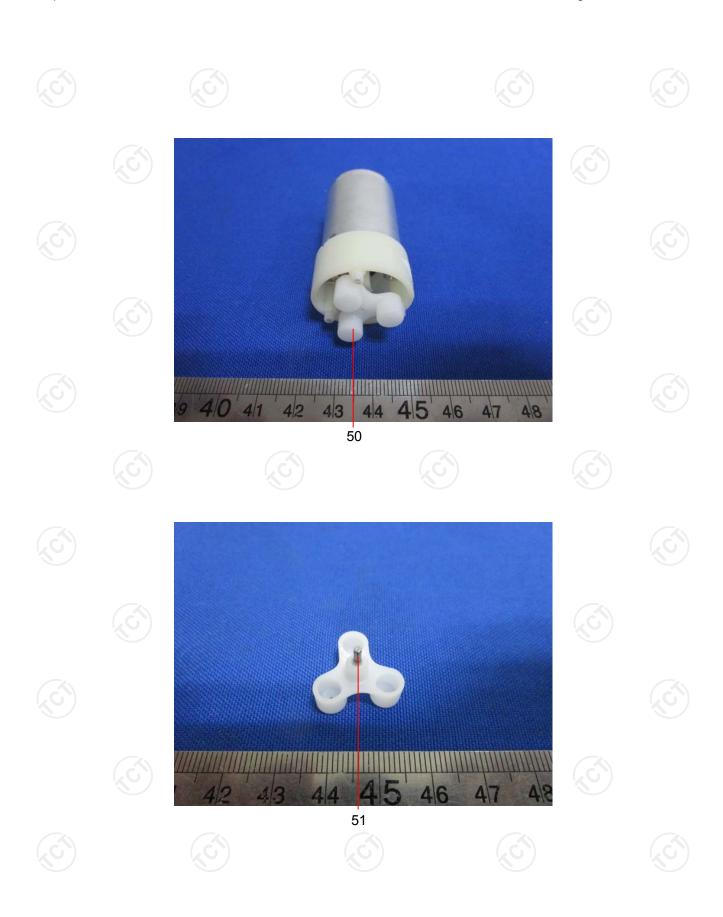


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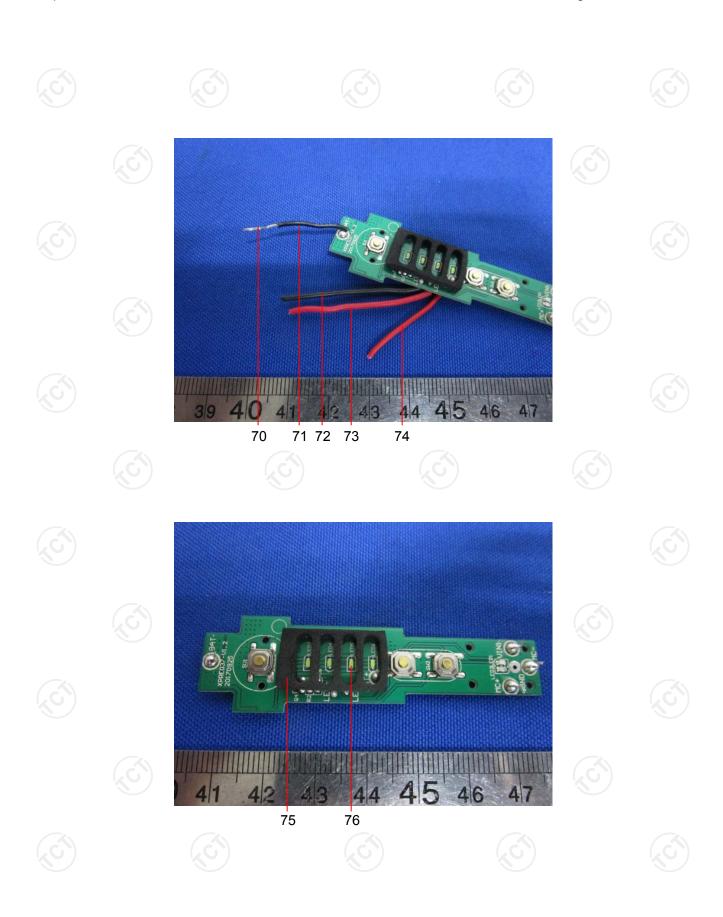


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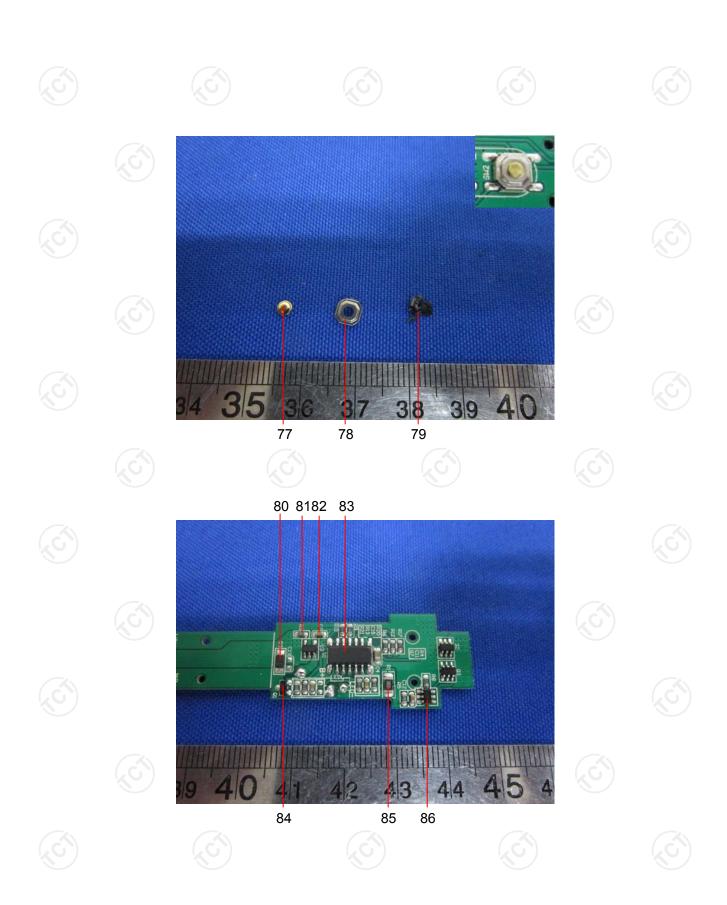


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