

Report No.: UNI2017122603RR-01 Date: 2017/12/26 Page 1/8

Applicant :

Address :

The following sample(s) was /were submitted and identified on behalf of the clients as:

Sample Name : Wireless charger

Sample Model : LWC-S02, LWC-S01, LWC-S07, LWC-S09

Sample Received Date : Dec., 16, 2017

**Testing Period** : Dec., 16, 2017 - Dec., 26, 2017

Test Requested : Selected test (s) in the selected parts as requested by client with the EU

Directive 2011/65/EU on the restriction of hazardous substances and

Commission Decision 2005/618/EC-(RoHS Directive)

**Test Method** : Please refer to next page(s).

**Test Result** : Please refer to next page(s).

Prepared by:

Reviewer:

Approved & Authorized Signer





Report No.: UNI2017122603RR-01 Date: 2017/12/26 Page 2/8

#### **Test Method and Test Equipment:**

Test Item(s)	Test Method	Test Equipment	
Lead(Pb)	IEC62321-3-1:2013	XRF	
Cadmium(Cd)	IEC62321-3-1:2013	XRF	
Mercury(Hg)	IEC62321-3-1:2013	XRF	
Chromium(Cr)	IEC62321-3-1:2013	XRF	
Bromine(Br)	IEC62321-3-1:2013	XRF	

No.	Sample Description	Test item	Result	Limit	Judgment
		Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
1	Black plastic case	Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
	1 19	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
2	Silver screws	Mercury(Hg)	N.D.	1000	Pass
2		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	÷
		Lead(Pb)	N.D.	1000	Pass
	White plastic ring membrane	Cadmium(Cd)	N.D.	100	Pass
3		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
	13"	Bromine(Br)	N.D.	350	Pass



Report No.: UNI2017122603RR-01 Date: 2017/12/26 Page 3/8

No.	Sample Description	Test item	Result	Limit	Judgment
	1, 1	Lead(Pb)	N.D.	1000	Pass
	1 2	Cadmium(Cd)	N.D.	100	Pass
4	Black rubber ring	Mercury(Hg)	N.D.	1000	Pass
	in.	Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
		Lead(Pb)	N.D.	1000	Pass
	الم الم	Cadmium(Cd)	N.D.	100	Pass
5	transparent plastic	Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
		Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
6	Silver spring	Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
-1		Bromine(Br)	N.D.	350	
	10	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
7	White plastic	Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
		Lead(Pb)	N.D.	1000	Pass
	139	Cadmium(Cd)	N.D.	100	Pass
8	Black rubber pad	Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
	121	Bromine(Br)	N.D.	350	Pass
		Lead(Pb)	N.D.	1000	Pass
	j.	Cadmium(Cd)	N.D.	100	Pass
9	Pink wire skin	Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass



Report No.: UNI2017122603RR-01 Date: 2017/12/26 Page 4/8

No.	Sample Description	Test item	Result	Limit	Judgment
		Lead(Pb)	N.D.	1000	Pass
	17	Cadmium(Cd)	N.D.	100	Pass
10	Copper core	Mercury(Hg)	N.D.	1000	Pass
	4	Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	
		Lead(Pb)	N.D.	1000	Pass
	ri in	Cadmium(Cd)	N.D.	100	Pass
11	Black metal	Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
	i di	Bromine(Br)	N.D.	350	
		Lead(Pb)	N.D.	1000	Pass
	,	Cadmium(Cd)	N.D.	100	Pass
12	Silver metal (mic-usb)	Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	-
15	i si	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
13	Black plastic (mic-usb)	Mercury(Hg)	N.D.	1000	Pass
	' H	Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
	ă.	Lead(Pb)	N.D.	1000	Pass
	, Fi	Cadmium(Cd)	N.D.	100	Pass
14	Black body	Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
	in.	Bromine(Br)	N.D.	350	Pass
		Lead(Pb)	N.D.	1000	Pass
	Silver lead	Cadmium(Cd)	N.D.	100	Pass
15		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
	8	Bromine(Br)	N.D.	350	\



Report No.: UNI2017122603RR-01 Date: 2017/12/26 Page 5/8

No.	Sample Description	Test item	Result	Limit	Judgment
		Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
16	Silver solder joints	Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	
		Lead(Pb)	N.D.	1000	Pass
	ri in	Cadmium(Cd)	N.D.	100	Pass
17	Green coating	Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
	, si	Bromine(Br)	N.D.	350	Pass
	1	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
18	White resin	Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
15		Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
19	Black plastic	Mercury(Hg)	N.D.	1000	Pass
	171	Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
		Lead(Pb)	N.D.	1000	Pass
	i Ni	Cadmium(Cd)	N.D.	100	Pass
20	Red film	Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
	i i	Bromine(Br)	N.D.	350	Pass
		Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
21	Transparent soft plastic	Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
	8.	Bromine(Br)	N.D.	350	Pass



Report No.: UNI2017122603RR-01 Date: 2017/12/26 Page 6/8

No.	Sample Description	Test item	Result	Limit	Judgment
	7	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
22	Black rubber	Mercury(Hg)	N.D.	1000	Pass
	- i	Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
		Lead(Pb)	N.D.	1000	Pass
	N. I	Cadmium(Cd)	N.D.	100	Pass
23	Silver gray metal	Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
	i di	Bromine(Br)	N.D.	350	
		Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
24	Silver gray metal	Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	
15		Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
25	White plastic	Mercury(Hg)	N.D.	1000	Pass
	IN .	Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
	ø.	Lead(Pb)	N.D.	1000	Pass
	, M	Cadmium(Cd)	N.D.	100	Pass
26	Silver lead	Mercury(Hg)	N.D.	1000	Pass
	A.	Chromium(Cr)	N.D.	1000	Pass
	in in	Bromine(Br)	N.D.	350	
		Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
27	Black plastic	Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
	4.	Bromine(Br)	N.D.	350	Pass



Report No.: UNI2017122603RR-01 Date: 2017/12/26 Page 7/8

No.	Sample Description	Test item	Result	Limit	Judgment
		Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
28	Black wire skin	Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
	as a	Lead(Pb)	N.D.	1000	Pass
	ri la	Cadmium(Cd)	N.D.	100	Pass
29	Red wire skin	Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
	i Hi	Bromine(Br)	N.D.	350	Pass
	1	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
30	White wire skin	Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
17		Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
31	Copper core	Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	
	2.	Lead(Pb)	N.D.	1000	Pass
	121	Cadmium(Cd)	N.D.	100	Pass
32	Silver metal (mic-usb)	Mercury(Hg)	N.D.	1000	Pass
	3	Chromium(Cr)	N.D.	1000	Pass
	(F)	Bromine(Br)	N.D.	350	
	Black plastic (mic-usb)	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
33		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass



Report No.:

UNI2017122603RR-01

Date: 2017/12/26

Page 8/8

#### Estimated detection limits in mg/kg for regulated elements in various material

Element	Polymer Material	Metallic Material	Composite Material
Lead(Pb)	300	300	300
Cadmium(Cd)	30	30	30
Mercury(Hg)	300	300	300
Chromium(Cr)	300	300	300
Bromine(Br)	300	Not applicable	300

Note:

1. P = Pass

2. F = Fail

3. "--" = Not applicable

#### Sample photo:



\*\*\* End of Report \*\*\*