TEST REPORT

LAB NO. : **(9319)240-1032-R1**
DATE : **Sep 11, 2019**
PAGE : **1 OF 10**

The report is amendment of and supersedes
the previous report (9319)240-1032 dated Sep 11, 2019

APPLICANT	:	**FLASHBAY ELECTRONICS** 1-4/F OF BLDG NO.3, BLDG NO.2, 101-501F OF BLDG NO.1, XIFENGCHENG INDUSTRIAL PARK, NO.2, FUYUAN ROAD, HEPING COMMUNITY, FUHAI STREET, BAOAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R. CHINA
CONTACT PERSON	:	Levin
DATE OF SUBMISSION	:	Aug 28, 2019
TEST PERIOD	:	Aug 28, 2019 to Sep 05, 2019
SAMPLE DESCRIPTION	:	Wireless chargers
Color:		/
Style no. / Model no.:		Edge、Cirque
P.O. No.:		/
Country of Origin:		/
Country of Destination:		/
MANUFACTURER	:	/

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
Compliance Test - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments (EU) 2015/863	PASS	

LA

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NINA REN
SENIOR MANAGER

REMARK

If there are questions or concerns on this report, please contact the following persons:

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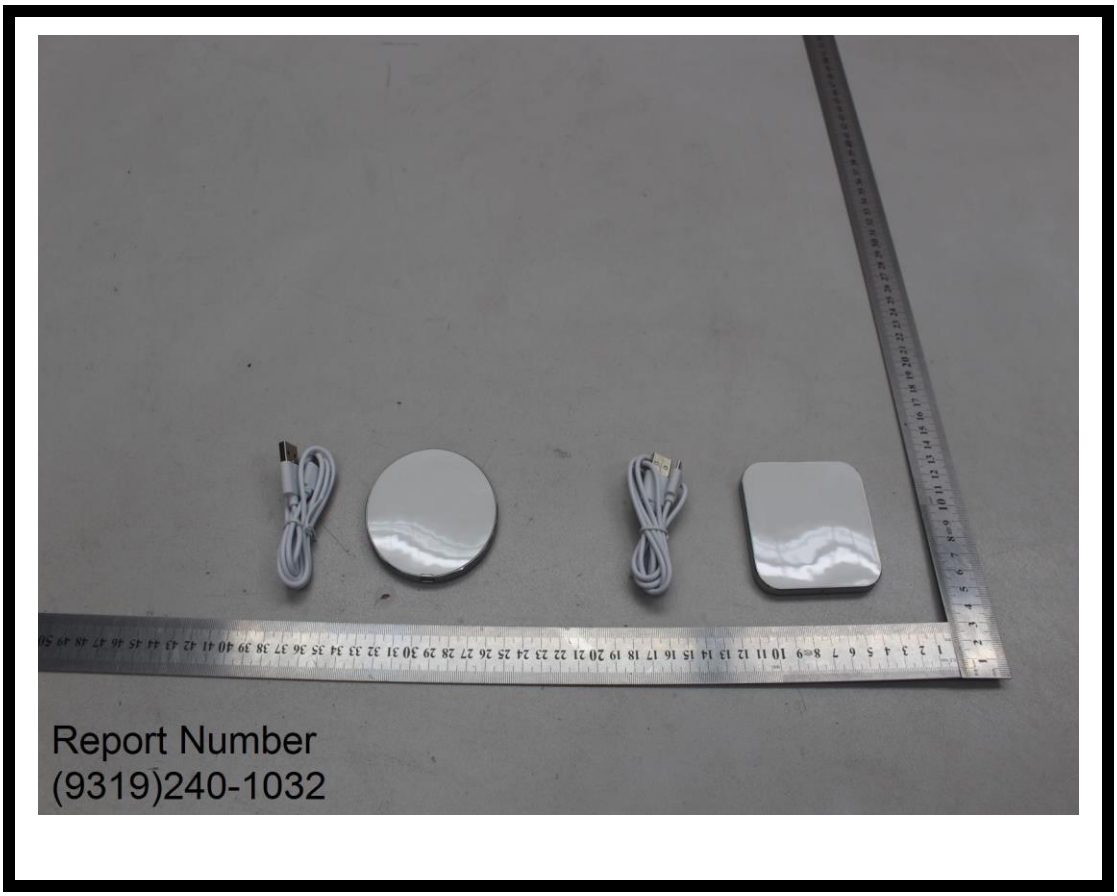
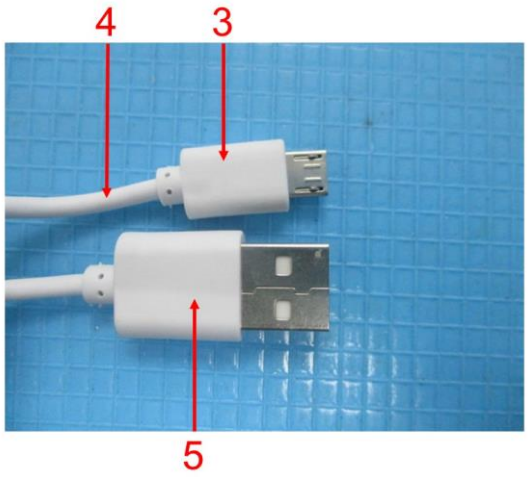
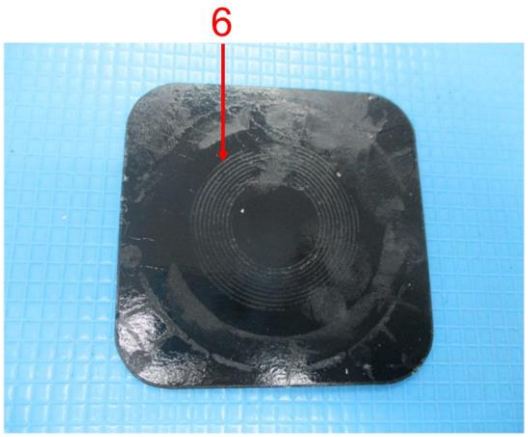
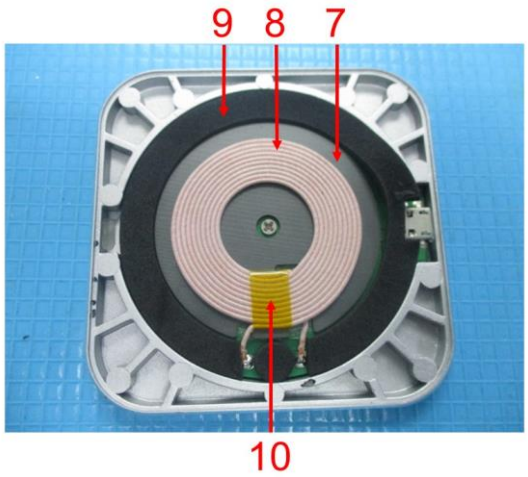
Photo of the Submitted Sample

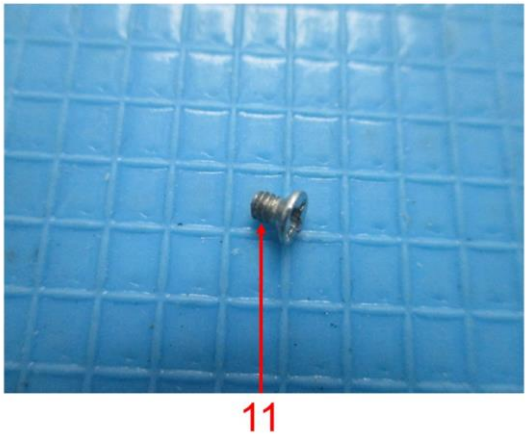


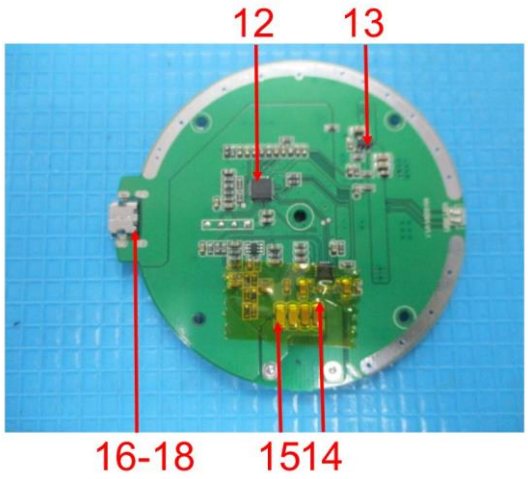
Photograph of test item(s)

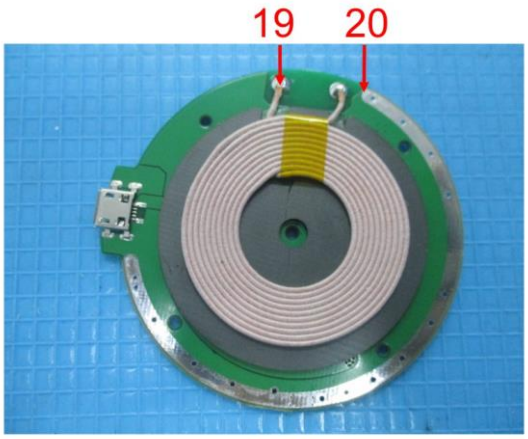


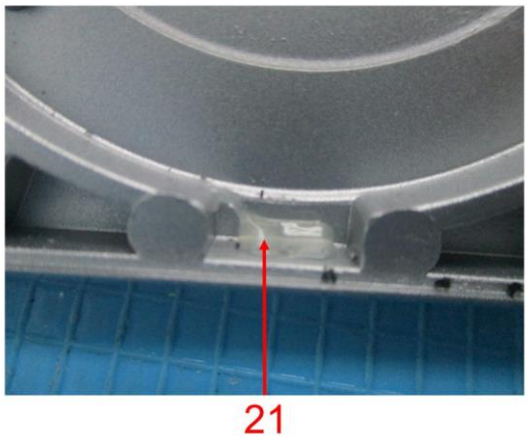


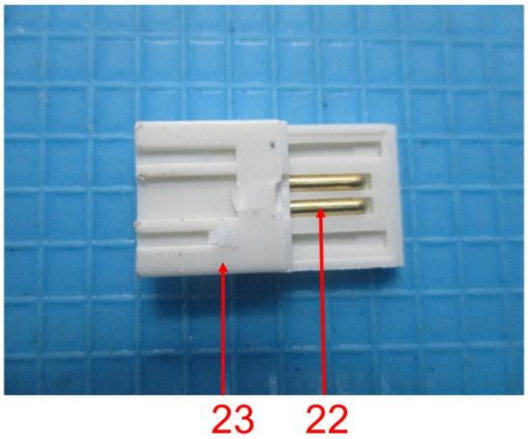


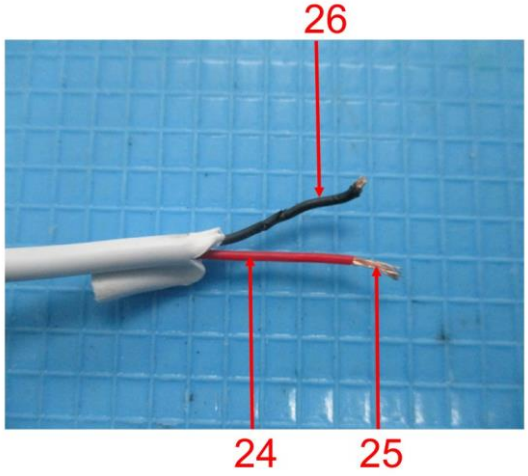


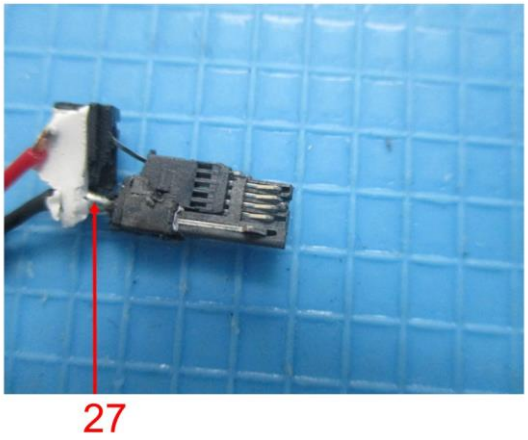












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TEST RESULT

Compliance Test - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments (EU) 2015/863

Test Method : See Appendix.

Test Item(s)	Item / Component Description(s) + Location(s)	Style(s)
1	White plastic with adhesive (case, charger)	-
2	Grey soft plastic (gasket, base)	-
3	White plastic (case, small usb)	-
4	White soft plastic (sleeve, wire jacket)	-
5	White soft plastic (case, big usb)	-
6	Black plastic with adhesive (plate, charger)	-
7	Black core (plate.charger)	-
8	White fiber (sleeve, coil, charger)	-
9	Black foam (gasket, charger)	-
10	Yellow soft plastic (tape, coil)	-
11	Silvery metal (screw, charger)	-
12	Black body (ec, pcb)	-
13	Black body (smd transistor, pcb)	-
14	Bone body (capacitor, pcb)	-
15	White body (capacitor, pcb)	-
16	Silvery metal (case, usb, pcb)	-
17	Silvery plated golden metal (pin, usb, pcb)	-
18	Black plastic (insulation, usb, pcb)	-
19	Silvery solder (pcb)	-
20	Green pcb (green pcb)	-
21	Translucent glue (inner, charger)	-
22	Silvery plated golden metal (pin, big usb)	-
23	White plastic (insulation, big usb)	-
24	Red soft plastic (wire jacket)	-
25	Coppery metal (wire)	-
26	Black soft plastic (wire jacket)	-
27	Silvery solder (small usb)	-
28	Silvery metal (case, big usb)	-
29	Silvery metal (case, small usb)	-
30	Silvery coating (base, charger)	-
31	Silvery metal (base, charger)	-

See Analytes and their corresponding Maximum Allowable Limit in Appendix

-	Result									
Parameter	**Lead (Pb)**	**Cadmium (Cd)**	**Mercury (Hg)**	**Chromium VI (Cr VI)**	**PBBs & PBDEs**	**DBP**	**BBP**	**DEHP**	**DIBP**	**Conclusion**
Unit	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	-
Test Item	-	-	-	-	-	-	-	-	-	-
1	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
2	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
3	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
4	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
5	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
6	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
7	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
8	BL	BL	BL	BL	BL	NA	NA	NA	NA	PASS
9	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
10	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
11	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS
12	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
13	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
14	BL	BL	BL	BL	BL	NA	NA	NA	NA	PASS
15	BL	BL	BL	BL	BL	NA	NA	NA	NA	PASS
16	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
17	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
18	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
19	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
20	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
21	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
22	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
23	BL	BL	BL	BL	ND*	BL	BL	BL	BL	PASS
24	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
25	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
26	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
27	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
28	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
29	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS
30	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
31	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS

Note / Key :

ND = Not detected
BL = Below Limit
NR = Not requested
Detection Limit: See Appendix.
">" = Greater than
NA = Not applicable
mg/kg = milligram(s) per kilogram = ppm = part(s) per million
"<" = Less than
EX= Exempted

Remark :

- The testing approach is listed in table of Appendix.
- * denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, non-uniformity composition, surface flatness.
- Only selected example(s) is (are) indicated on the photograph(s) in Comment.
- According to European Parliament and Council Directive 2011/65/EU, Article 5 “Adaptation of the Annexes to scientific and technical progress”, exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive.

APPENDIX

List of Analytes and their Corresponding Test Methods, Detection Limit and Maximum Allowable Limit [Compliance Test for European Parliament and Council Directive 2011/65/EU with its Amendments (EU) 2015/863] :

No.	Name of Analyte(s)	Detection Limit (mg/kg)				Maximum Allowable Limit (mg/kg)
		X-ray fluorescence (XRF)[a]			Wet Chemistry	
		Plastic	Metallic / glass / ceramic	Others		
1	Lead (Pb)	100	200	200	10[b]	1000
2	Cadmium (Cd)	50	50	50	10[b]	100
3	Mercury (Hg)	100	200	200	10[c]	1000
4	Chromium (Cr)	100	200	200	NA	NA
5	Chromium VI (Cr VI)	NA	NA	NA	3[g, h] / 10[d] / See [e, i]	1000 / Negative[i]
6	Bromine (Br)	200	NA	200	NA	NA
7	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	NA	NA	NA	Each 50[f]	Sum 1000
8	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) -Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	NA	NA	NA	Each 50[f]	Sum 1000
9	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Diisobutyl phthalate (DIBP)	NA	NA	NA	Each 500[j]	Each 1000

NA = Not applicable IEC = International Electrotechnical Commission

[a] Test method with reference to International Standard IEC 62321-3-1: 2013.

[b] Test method with reference to International Standard IEC 62321-5: 2013.

[c] Test method with reference to International Standard IEC 62321-4: 2013+AMD1: 2017 CSV.

[d] Polymers and Electronics - Test method with reference to International Standard IEC 62321-7-2: 2017.

[e] Metal - Test method with reference to International Standard IEC 62321-7-1: 2015.

[f] Test method with reference to International Standard IEC 62321-6: 2015.

[g] Leather - Test method International Standard ISO 17075: 2017.

[h] Other Than Metal, Leather, Polymers and Electronics - Test method with reference to International Standard ISO 17075: 2007.

[i] Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Parliament and Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Parliament and Council Directive 2011/65/EU, Article 4(1).

[j] Test method with reference International Standard IEC 62321-8: 2017.

Testing Approach [Compliance Test for European Parliament and Council Directive 2011/65/EU] :

The testing approach was with reference to the following document(s).

1. International Standards IEC 62321-1: 2013 and IEC 62321-2: 2013
2. "RoHS Enforcement Guidance Document Version 1" by EU RoHS Enforcement Authorities Informal Network. (May 2006)
3. "RoHS Regulations - Government Guidance Notes" by United Kingdom Department for Business Innovation & Skills. (February 2011)
4. "Final Report to RoHS substances (Hg, Pb, Cr(VI), Cd, PBB and PBDE) in electrical and electronic equipment in Belgium" by Belgium Federal Public Service Health, Food Chain Safety and Environment. (November 2005)

END