



TEST REPORT

Report No. : WTF22F10204182C

Applicant..... : Mid Ocean Brands B.V.

Address : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha

Wan, Kowloon, Hong Kong

Manufacturer: 103221

Sample Name: Table light wireless charger

Sample Model: MO6349

Date of Receipt sample 2022-10-14

Testing period : 2022-10-14 to 2022-10-24

Date of Issue 2022-10-24

Test Result : Refer to next page (s)

Prepared By: Waltek Testing Group (Foshan) Co., Ltd.

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Signed for and on behalf of Waltek Testing Group (Foshan) Co., Ltd.

Swing.Liang



Test Conclusion

Test Requested : In accordance with the RoHS Directive 2011/65/EU and its amendment (EU) No. 2015/863.

Test Method : 1) With reference to IEC 62321-2:2021, disassembly, disjunction and mechanical sample preparation
2) With reference to IEC 62321-3-1:2013, screening - Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry
3) With reference to IEC 62321-4:2013+AMD1:2017
CSV, determination of Mercury by ICP-OES
4) With reference to IEC 62321-5:2013, determination of Lead and Cadmium by ICP-OES

5) With reference to IEC 62321-7-2: 2017 and IEC 62321-7-1: 2015, determination of Hexavalent Chromium by UV-Vis

6) With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS

7) With reference to IEC 62321-8:2017, determination of Phthalates content by GC-MS.

Pass (Based on the performed tests on the submitted samples, the results comply with the RoHS Directive 2011/65/EU and its amendment (EU) No. 2015/863)





Sample Photo(s):





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Test Results:

1. Lead, Mercury, Cadmium, Hexavalent Chromium, PBBs and PBDEs

Part	at at at at	est of	Res	ult of 2	KRF	Result of Wet Chemical	
No.	Part Description	Cd	Pb	Hg	Cr	Br	Testing (mg/kg)
1	White soft plastic ring with adhesive	BL	BL	BL	BL	BL	INTER WILLIAM
2	White plastic shell	BL	BL	BL	BL	BL	NA LET IN
3	White plastic shell	BL	BL	BL	BL	BL	set and NAST men
4	White plastic shell	BL	BL	BL	BL	BL	NA NA
5	Semi-transparent plastic sheet	BL	BL	BL	BL	BL	NA NA
6	Silvery metal sheet	BL	BL	BL	IN	5° . Jt	Cr ⁶⁺ : Negative
7	Silvery metal spring	BL	BL	BL	IN		Cr ⁶⁺ : Negative
8	White soft plastic tube	BL	BL	BL	BL	BL	NA
9	White plastic sheet	BL	BL	BL	BL	BL	MA NA
10	Solder	BL	BL	BL	BL	√ \ \	NA
11	Chip LED	BL	BL	BL	BL	BL	NA
12	Chip LED	BL	BL	BL	BL	BL	NA NA
13	White PCB	BL	BL	BL	BL	IÑ	PBBs : ND PBDEs : ND
14	Black plastic wire covering	BL	BL	BL	BL	BL	LUTER NA LITER AN
15	Silvery metal wire	BL	BL	BL	BL	ا <u></u> ناس	NA MALLE
16	Red plastic wire covering	BL	BL	BL	BL	BL	NA NA
17	Chip resistor	BL	BL	BL	BL	BL	NA STEEL NA
18	Chip audion	BL	BL	BL	BL	IN	PBBs : ND PBDEs : ND
19	Chip capacitor	BL	BL	BL	BL	BL	NA NA

10.	20. 2.	سلم					and the sale
Part	Port Description		Res	ult of 2	XRF	Result of Wet Chemical	
No.	Part Description	Cd	Pb	Hg	Cr	Br	Testing (mg/kg)
20	Chip IC	BL	BL	BL	BL	BL	NA WILL
21	Silvery metal spring	BL	BL	BL	BL	NLTEK	MA WHITE W
22	Black sponge sheet with adhesive	BL	BL	BL	BL	BL	RESERVE MALE MALE
23	Yellow paper film	BL	BL	BL	BL	BL	pot ment NA " MALLER
24	White soft plastic sheet with adhesive	BL	BL	BL	BL	BL	NA NA
25	Silvery metal shell (USB plug)	BL	BL	BL	BL	or Tex	THE NAME OF THE PARTY AND
26	White plastic jacket (USB plug)	BL	BL	BL	BL	BL	NA THE NATE
27	White plastic core (USB plug)	BL	BL	BL	BL	BL	NA H
28	Golden metal pin (USB plug)	BL	BL	BL	BL	100	NA NA
29	Solder (USB plug)	BL	BL	BL	BL	-	NA NA
30	White plastic jacket (plug)	BL	BL	BL	BL	BL	NA NA
31	Silvery metal shell (plug)	BL	BL	BL	IN		Cr ⁶⁺ : Negative
32	Black plastic core (plug)	BL	BL	BL	BL	BL	White WA
33	Solder (plug)	BL	BL	BL	BL	NLTER.	white whit NA white w
34	Silvery metal pin (plug)	BL	BL	BL	BL	7.E.P. - W	NA NA
35	Dark grey magnetic sheet	BL	BL	BL	BL	ini	NA WELL
36	White fibrous tube	BL	BL	BL	BL	BL	white white
37	Coppery varnished wire	BL	BL	BL	BL	BL	nitet unit NA nitet un
38	Yellow plastic adhesive tape	BL	BL	BL	BL	BL	THE WALTER WALTER
39	Solder	BL	BL	BL	BL		NA NA
	/			. 7.7	10.34	- M / Fr	-10.



Part	the state of the second	Result of XRF						
No.	Part Description	Cd	Pb	Hg	Cr	Br	Result of Wet Chemical Testing (mg/kg)	
40	Chip IC	BL	BL	BL	BL	BL	NA WILL	
41	Chip IC	BL	BL	BL	BL	BL	united united un	
42	Silvery metal shell (socket)	BL	BL	BL	BL	ge <u>t</u>	STEET NASTEE STOLE	
43	Black plastic core (socket)	BL	BL	BL	BL	BL	A NA TANGET	
44	Silvery metal pin (socket)	BL	BL	BL	BL		- NA NAT	
45	Red capacitor	BL	BL	BL	BL	BL	NA NA	
46	Chip audion	BL	BL	BL	BL	BL	NA CONTRACTOR	
47	Dark grey magnetic core (inductor)	BL	BL	BL	BL	- '\	NA +	
48	Coppery varnished wire (inductor)	BL	BL	BL	BL	BL	NA NA	
49	Chip diode	BL	BL	BL	BL	BL	NA	
50	Chip capacitor	BL	BL	BL	BL	BL	NA	
51	Chip resistor	BL	BL	BL	BL	BL	NA	
52	Chip IC	BL	BL	BL	BL	BL	NA NA	
53	Green PCB	BL	BL	BL	BL	ÍN	PBBs : ND PBDEs : ND	
54	Black EC	BL	BL	BL	BL	BL	MA MALL	
55	Red varnished wire	BL	BL	BL	BL	BL	NA UNIT	
56	White plastic wire jacket	BL	BL	BL	BL	BL	MA JOSEPH	
57	Pink plastic wire covering	BL	BL	BL	BL	BL	ntitt unti NA ntitt unt	
58	Dark grey plastic wire covering	BL	BL	BL	BL	BL	of NA The orth	
59	Light green plastic wire covering	BL	BL	BL	BL	BL	NA NA	

Part	of the text of the street of	LIE	Res	ult of 2	XRF	Result of Wet Chemical		
No.	Part Description		Pb	Hg	Cr Br		Testing (mg/kg)	
60	White plastic wire covering	BL	BL	BL	BL	BL	MA MELLE W	
61	Coppery metal wire	BL	BL	BL	BL	INL TE LY	MA WITE WA	
62	Silvery metal screw	BL	BL	BL	IN	76 7	Cr ⁶⁺ : Negative	

Remark:

(1) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for Cr⁶⁺) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1: 2013 (unit: mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	BL \leq (70-3 σ) $<$ IN $<$ (130+3 σ) \leq OL	BL \leq (70-3 σ) $<$ IN $<$ (130+3 σ) \leq OL	$LOD < IN < (150+3\sigma) \le OL$
Pb	$BL \le (700-3\sigma) < IN < (1300+3\sigma) \le OL$	$BL \le (700-3\sigma) < IN < (1300+3\sigma) \le OL$	BL ≤ (500-3σ) < IN < (1500+3σ) ≤ OL
Hg	$BL \le (700-3\sigma) < IN < (1300+3\sigma) \le OL$	$BL \le (700-3\sigma) < IN < (1300+3\sigma) \le OL$	BL \leq (500-3 σ) $<$ IN $<$ (1500+3 σ) \leq OL
Cr	BL ≤ (700-3σ) < IN	BL ≤ (700-3σ) <in< td=""><td>BL ≤ (500-3σ) < IN</td></in<>	BL ≤ (500-3σ) < IN
Br	BL ≤ (300-3σ) < IN	William in A	BL ≤ (250-3σ) < IN

- BL= Below Limit
- OL= Over Limit
- LOD = Limit of Detection
- -- = Not Regulated
- (2) "IN" expresses the inconclusive region, and further chemical testing to confirm whether it complies with the requirement of RoHS Directive.
- (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.
- (4) mg / kg =milligram per kilogram=ppm, μg/cm²= Micrograms per square centimetre.
- (5) ND = Not Detected or lower than limit of quantitation.
- (6) NA = Not Applicable, as the XRF screening test result was below the limit or as the XRF screening directly determine that test result was over the limit, it was not need to conduct the wet chemical testing.
- (7) LOQ = Limit of quantitation.

Test Items	Pb	Cd	Hg	J 10	r ⁶⁺	PBB	PBDE
Units	mg/kg	mg/kg	mg/kg	mg/kg	µg/cm ²	mg/kg	mg/kg
LOQ	2	2	2	8	0.1	5	5

The LOQ for single compound of PBBs and PBDEs is 5mg/kg, LOQ of Cr⁶⁺ for polymer and composite sample is 8mg/kg and LOQ of Cr⁶⁺ for metal sample is 0.1µg/cm².



(8) RoHS Requirement

Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr ⁶⁺)	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)

(9) According to IEC 62321-7-1:2015, determined of Cr⁶⁺ on metal sample by boiling water extraction test method, and result is shown as Positive/Negative.

Boiling water extraction:

Negative = Absence of Cr⁶⁺ coating, the detected concentration in boiling water extraction solution is less than 0.10ug/cm².

Positive = Presence of Cr⁶⁺ coating, the detected concentration in boiling water extraction solution is greater than 0.13ug/cm².

Information on storage conditions and production date of the tested sample is unavailable and thus Cr⁶⁺ results represent status of the sample at the time of testing.

(10) Abbreviation:

"Pb" denotes Lead, "Cd" denotes Cadmium, "Hg" denotes Mercury, "Cr" denotes Chromium, "Cr (VI)" denotes Hexavalent Chromium, "Br" denotes Bromine, "PBBs" denotes Total Polybrominated Biphenyls, "PBDEs" denotes Total Polybrominated Diphenyl Ethers.

2. Phthalates:

Serial Port No.		Result (mg/kg)						
No.	Part No.	DBP	BBP	DEHP	DIBP			
T01	re me 1m m	ND	ND ND	ND	ND			
T02	2+3+4+5+9 [△]	ND	ND	ND	ND			
T03	6	n. 5.						
T04	7	at the	oth mark whi	in in				
T05	8 mil un	ND	ND	ND	ND			
T06	10	L zet K	of the street	neite - inei	m- m			
T07	11+12+13+17+18 [△]	ND W	ND	ND	ND /			
T08	14	ND	ND O	94	ND			
T09	15	MITTE - MITTE	an an		, 1			
T10	16	ND	ND	ND	ND			
T11	19+20+37+40+41 ^Δ	ND	ND	ND	ND			
T12	21	r 4 <u>i</u> 1		* *				
T13	22	ND	ND	ND	ND			
T14	23	WND W	ND	ND	ND			
T15	24	ND	ND	ND	ND			
T16	25	WALL WALL	mm	n 'i	- J			
T17	26	ND	+ ND	ND	ND			



Serial		Result (mg/kg)							
No.	Part No.	DBP	BBP	DEHP	DIBP				
T18	27+32 [△]	ND	ND	ND	ND				
T19	28	21/2 22	·	J J	TER TIER				
T20	29	1t 1t	211 - 111 1	Vr. 1905 11	20				
T21	30	ND	ND	ND	ND-				
T22	31	L L	TEX TIPE OF	in with the	111 - 111				
T23	33	The Water Out	24,- 24	-	. AF .				
T24	34		+ ,# .K	LIFE SUITE	With - Wer				
T25	35	Charles and	Myr Myr	1/1, -11,	~				
T26	36 , 12	ND	ND	ND	ND				
T27	38	ND	ND	ND	ND				
T28	39	Wer an		- J	zek ze k				
T29	42	A 10th	JEK TIER O	The State Me	" " " " " " " " " " " " " " " " " " "				
T30	43	ND	ND	ND	ND				
T31	44		et to s	er nite and	with an				
T32	45+46+48+49+50 [△]	ND	ND	ND	ND				
T33	10 47 W W	- v	. J+ J+	TEL TEL	WITE - MIT				
T34	51+52+53+54+55 ^Δ	ND	ND	ND	ND				
T35	56	125	ND	ND -	ND				
T36	57	87	ND	ND	ND				
T37	58	88	ND	ND	ND-				
T38	59	ND	ND	ND	ND				
T39	60	77	ND	74	ND				
T40	si 61		*	The street	TALL - NAT				
T41	62		ant - with	21/2 - 21/					

Note:

- (1) mg/kg = milligram per kilogram= ppm
- (2) ND = Not Detected or lower than limit of quantitation.
- (3) -- = Not Regulated.
- (4) LOQ = Limit of quantitation.

Test Items	DBP	BBP	DEHP	DIBP
Units	mg/kg	mg/kg	mg/kg	mg/kg
LOQ	50	50	50	50

(5) Abbreviation:

"DBP" denotes Dibutyl phthalate, "BBP" denotes Benzyl butyl phthalate (BBP), "DEHP" denotes Bis(2-ethylhexyl)-phthalate, "DIBP" denotes Diisobutyl phthalate, "PHT" denotes Phthalates.

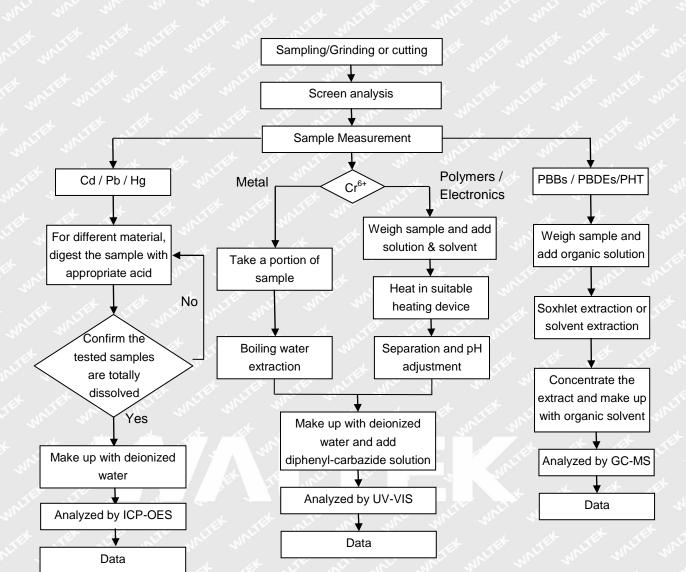
(6) RoHS requirement

Restricted Substances	Limits
Dibutyl phthalate (DBP)	0.1% (1000 mg/kg)
Benzyl butyl phthalate (BBP)	0.1% (1000 mg/kg)
Di(2-ethylhexyl) phthalate (DEHP)	0.1% (1000 mg/kg)
Di-iso-butyl phthalate (DIBP)	0.1% (1000 mg/kg)

(7) "△"= As client's requirement, the testing was conducted based on mixed components. Results are calculated by the minimum weight of mixed components.

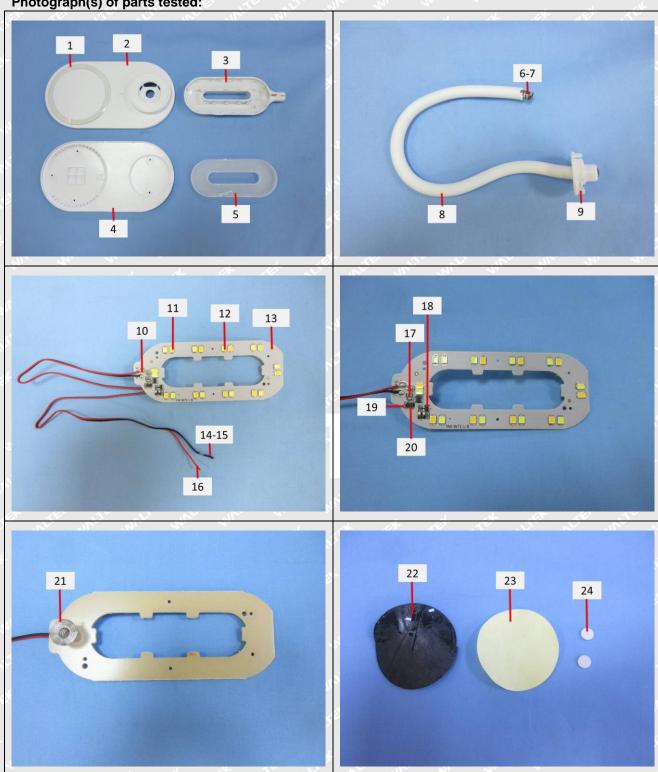
Measurement Flowchart:



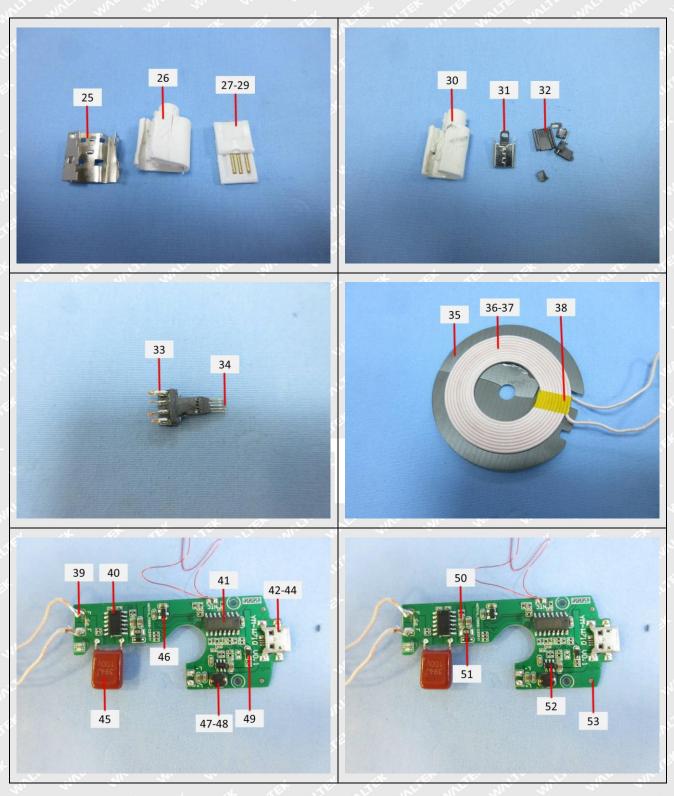




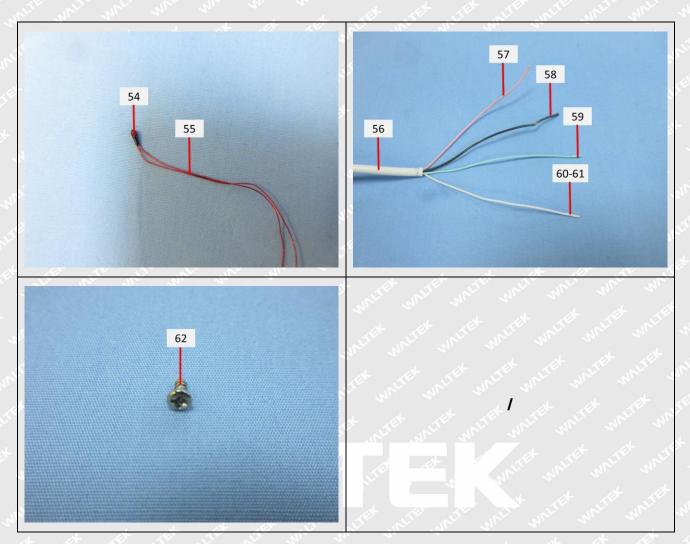
Photograph(s) of parts tested:











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===== End of Report =====