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Applicant: Mid Ocean Brands B.V.

Address: Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

Manufacturer: 117486

Address:

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

Sample Name: Wireless Charger

Sample Model: MO2651

Sample Received Date: Jul. 31, 2025

Testing Period: Jul. 31, 2025 to Aug. 05, 2025

Test Requested

As requested by the applicant, refer to attached page(s) for details.

Approved by:

Tony glan

Tony Qian/Technical Manager



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Summary of Test Results:

Test S	Standard	Conclusion
RoHS	Directive 2011/65/EU and its subsequent amendments Directive (EU) 2015/863	19
1	To determine Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls (PBBs) and Polybrominated DiphenylEthers (PBDEs)content by screening test and chemical test.	Pass
2	To determine Phthalates (DBP, BBP, DEHP, DIBP) content by chemical test.	Pass



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Test Results:

(1)XRF Test Result:

6	XRF Result(mg/kg)			Chemical Test	G 1 '		
No.	Pb	Cd	Hg	Cr	Br	(mg/kg)	Conclusion
1	BL	BL	BL	BL	BL	4	Pass
2	BL	BL	BL	BL	BL		Pass
3	BL	BL	BL	BL	BL	150	Pass
4	BL	BL	BL	BL	BL	6-	Pass
5	BL	BL	BL	BL		(Pass
6	BL	BL	BL	BL	BL		Pass
7	BL	BL	BL	BL	BL		Pass
8	BL	BL	BL	BL	BL	100	Pass
9	BL	BL	BL	BL		Œ	Pass
10	BL	BL	BL	BL	BL		Pass
11	BL	BL	BL	BL	BL		Pass
12	BL	BL	BL	BL	BL	<u></u>	Pass
13	BL	BL	BL	BL	BL	-7(E/S	Pass
14	BL	BL	BL	BL	BL		Pass
15	BL	BL	BL	BL	BL		Pass
16	BL	BL	BL	BL	BL	n.63	Pass
17	BL	BL	BL	BL	(£	Pass
18	BL	BL	BL	BL	BL	- 68	Pass
19	BL	BL	BL	BL	BL	- 6	Pass
20	BL	BL	BL	BL	9		Pass
21	BL	BL	BL	BL	BL	A59	Pass
22	BL	BL	BL	BL	BL	(E	Pass
23	BL	BL	BL	BL	BL	- (8)	Pass
24	BL	BL	BL	BL	BL	💝	Pass
25	BL	BL	BL	BL	BL		Pass

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No.		XRI	XRF Result(mg/kg) Chemical Test		Conclusion		
NO.	Pb	Cd	Hg	Cr	Br	(mg/kg)	
26	BL	BL	BL	BL	BL	9 - 0	Pass
27	BL	BL	BL	BL		- 6	Pass
28	BL	BL	BL	BL	A.6		Pass

Remark:

- 1.It is the result on total Br while test item on restricted substances in PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr(VI).
- 2. Screening test by XRF spectroscopy. XRF screening limits in mg/kg for regulated elements according to IEC 62321-3-1: 2013Annex A.

Element	Polymer Material	Metallic Material	Composite Material	
Pb	BL \leq 700-3 σ \leq X $<$ 1300+3 σ \leq OL	BL \leq 700-3 σ \leq X $<$ 1300+3 σ \leq OL	BL \leq 500-3 σ \leq X $<$ 1500+3 σ \leq OL	
Cd	BL \leq 70-3 σ \leq X $<$ 130+3 σ \leq OL	BL \leq 70-3 σ \leq X $<$ 130+3 σ \leq OL	LOD < X < 150+3σ≤OL	
Hg	BL \leq 700-3 σ \leq X $<$ 1300+3 σ \leq OL	BL \leq 700-3 σ \leq X $<$ 1300+3 σ \leq OL	BL \leq 500-3 σ \leq X $<$ 1500+3 σ \leq OL	
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<>	
Br	BL≤300-3σ <x< td=""><td>- (50)</td><td>BL≤250-3σ<x< td=""></x<></td></x<>	- (50)	BL≤250-3σ <x< td=""></x<>	



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XRF Detection Limits in mg/kg for Regulated Elements in Various Material

Element	nt Polymer Material Metallic Material		Composite Material	
Pb	10	50	50	
Cd	10	50	50	
Hg	10	50	50	
Cr	10	50	50	
Br	10	50	50	

Note: 1.BL = Under the XRF screening limit

2.OL = Future chemical test will be conducted while result is above the screening limit

3.X = The symbol "X" marks the region where further investigation in necessary

4.3σ=The reproducibility of analytical instruments

5.LOD=Detection limit

(2)Wet Chemical Test

Test Item(s)	Test Method/ Test Equipment	Unit	Limit	MDL
Cadmium(Cd)	IEC 62321-5:2013, ICP-OES	mg/kg	100	2
Lead(Pb)	IEC 62321-5:2013, ICP-OES	mg/kg	1000	2
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017, ICP-OES	mg/kg	1000	2
Hexavalent Chromium(CrVI) (Metal)	IEC 62321-7-1:2015, UV-Vis	μg/cm ²	0.13	0.1
Hexavalent Chromium(CrVI) (Nonmetal)	IEC 62321-7-2:2017, UV-Vis	mg/kg	1000	8
PBBs (Next form)	IEC 62321-6:2015, GC-MS	mg/kg	1000	5
PBDEs (Next form)	IEC 62321-6:2015, GC-MS	mg/kg	1000	5
Dibutyl Phthalate(DBP)	IEC 62321-8:2017, GC-MS	mg/kg	1000	30
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017, GC-MS	mg/kg	1000	30
Di-(2-ethylhexyl) Phthalate(DEHP)	IEC 62321-8:2017, GC-MS	mg/kg	1000	30
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017, GC-MS	mg/kg	1000	30

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PB	BBs	PBDEs		
Monobromobiphenyl	Hexabromobiphenyl	Monobromodiphenyl ether	Hexabromodiphenyl ether	
Dibromobiphenyl	Heptabromobiphenyl	Dibromodiphenyl ether	Heptabromodiphenyl ether	
Tribromobiphenyl	Octabromobiphenyl	Tribromodiphenyl ether	Octabromodiphenyl ether	
Tetrabromobiphenyl	Nonabromobiphenyl	Tetrabromodiphenyl ether	Nonabromodiphenyl ether	
Pentabromobiphenyl	Decabromobiphenyl	Pentabromodiphenyl ether	Decabromodiphenyl ether	

Note:

- 1. mg/kg = ppm = 0.0001%
- 2. N.D.= Not Detected(<MDL)
- 3. MDL = Method Detection Limit
- 4. --= No Testing
- 5. When Cr (VI) in a sample is detected below the 0.10 μg/cm² LOQ (limit of quantification), the sample is considered to be negative for Cr (VI). Since Cr (VI) may not be uniformly distributed in the coating even within the same sample batch, a "grey zone" between 0.10 μg/cm² and 0.13 μg/cm² has been established as "inconclusive" to reduce inconsistent results due to unavoidable coating variations. In this case, additional testing may be necessary to confirm the presence of Cr (VI). When Cr (VI) is detected above 0.13 μg/cm², the sample is considered to be positive for the presence of Cr (VI) in the coating layer. Unavoidable coating variations may influence the determination Information on storage conditions and production date of the tested sample is unavailable and thus Cr (VI) results represent status of the sample at the time of testing.



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(3)Phthalate Test Result:

100	Test Item(s)					
Test No.	Dibutyl Phthalate (DBP)	Butyl benzyl phthalate (BBP)	Di-(2-ethylhexyl) Phthalate (DEHP)	Diisobutyl phthalate (DIBP)	Conclusion	
1	N.D.	N.D.	N.D.	N.D.	Pass	
2	N.D.	N.D.	N.D.	N.D.	Pass	
3	N.D.	N.D.	N.D.	N.D.	Pass	
4	N.D.	N.D.	N.D.	N.D.	Pass	
6	N.D.	N.D.	N.D.	N.D.	Pass	
7	N.D.	N.D.	N.D.	N.D.	Pass	
8	N.D.	N.D.	N.D.	N.D.	Pass	
10	N.D.	N.D.	N.D.	N.D.	Pass	
11	N.D.	N.D.	N.D.	N.D.	Pass	
12	N.D.	N.D.	N.D.	N.D.	Pass	
13	N.D.	N.D.	N.D.	N.D.	Pass	
14	N.D.	N.D.	N.D.	N.D.	Pass	
15	N.D.	N.D.	N.D.	N.D.	Pass	
16	N.D.	N.D.	N.D.	N.D.	Pass	
18	N.D.	N.D.	N.D.	N.D.	Pass	
19	N.D.	N.D.	N.D.	N.D.	Pass	
21	N.D.	N.D.	N.D.	N.D.	Pass	
22	N.D.	N.D.	N.D.	N.D.	Pass	
23	N.D.	N.D.	N.D.	N.D.	Pass	
24	N.D.	N.D.	N.D.	N.D.	Pass	
25	N.D.	N.D.	N.D.	N.D.	Pass	
26	N.D.	N.D.	N.D.	N.D.	Pass	

Note: 1. mg/kg= ppm=0.0001%

2. N.D.= Not Detected(<MDL)

Test Process:

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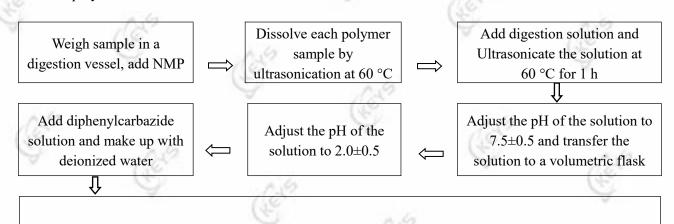


Page 8 of 13 Report No.: RKEYS250731239 Date: Aug. 13, 2025 1. Test for Cd/Pb Content Add digestion Weigh sample and Digest samples on hot plate Place in a conical flask Reagent Make up with Transfer the digestive solution Analyze by ICP-OES into a volumetric flask deionized water 2. Test for Hg Content Add digestion Weigh sample and place in a Digest samples in microwave microwave digestion vessel Reagent digestion oven Make up with Transfer the digestive solution Analyze by ICP-OES deionized water into a volumetric flask



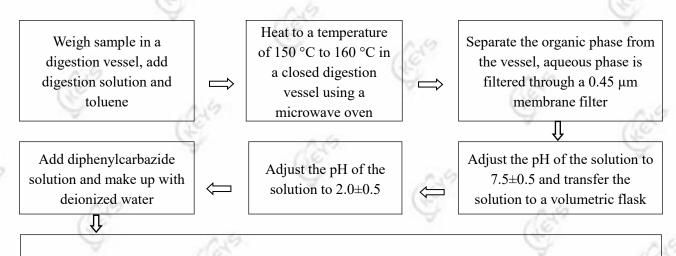
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3. Test for Chromium (VI) Content Soluble polymers:



Analyze the mixture by using UV-VIS Spectrophotometer with wavelength set at 540 nm

Insoluble/unknown polymers and electronics without Sb

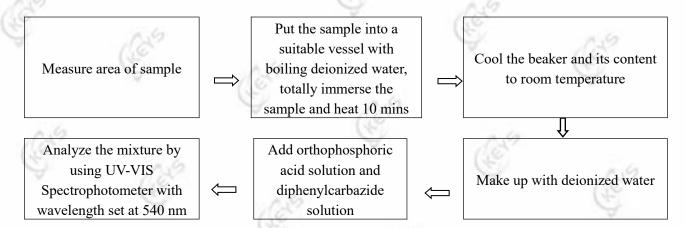


Analyze the mixture by using UV-VIS Spectrophotometer with wavelength set at 540 nm

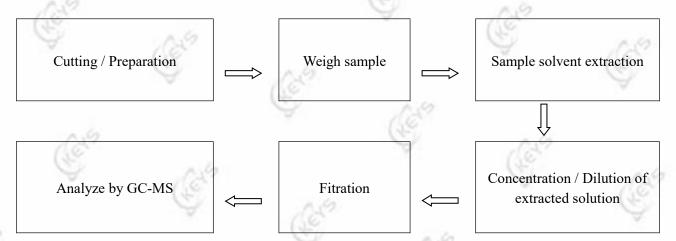


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Metal material



4. Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content





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Sample Description:

No.	Description
7 1	Transparent plastic sheet
2	Black silicone sheet
3	White printing black silicone shell
4	Black plastic casing
5	Silvery metal casing
6	Black plastic fasteners
7	Grey ceramic sheet
8	Beige woven outer leather
9	Copper-colored metal enameled wire
10	Yellow plastic adhesive tape
11	Black diode
12	Black IC
13	Black resistor
14	Black transistor
15	Black PCB
16	Brown capacitor
17	Silvery metal stylus
18	Green PCB
19	Brown capacitor
20	Copper-colored metal wire core
21	Red plastic wire skin
22	White plastic wire skin
23	Green plastic wire skin
24	Yellow plastic wire skin
25	Black plastic wire skin
26	Black plastic wire skin
27	Silvery metal solder

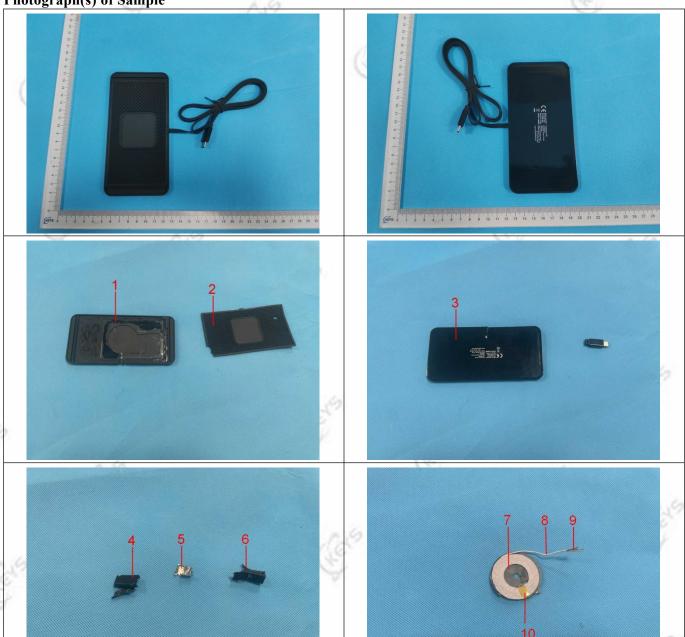
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No.	Description	
28	Silvery metal solder	

Photograph(s) of Sample



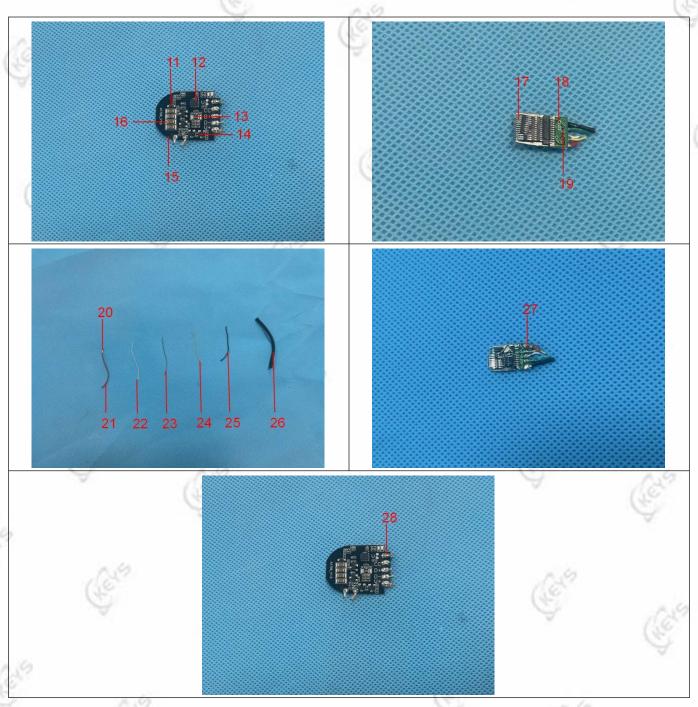
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Address: Building 1, No.18, Shihuan Road, Dongcheng Subdistrict, Dongguan, Guangdong, China Tel: +86-0769-22221088 http://www.keys-lab.com E-mail: info@keys-lab.com

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*** End of Report ***

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