

Report No.: STSGZ2409113053E Date: 26-Sep-2024 Page 1 of 12

Applicant: Mid Ocean Brands B.V.

Address: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

The following sample(s) and sample information was/were submitted and identified by client as:

Sample Name: stepless dimming table lamp 1200mAh battery

Model: MO2478

Vendor code: 107978

Receiving Date: 11-Sep-2024, 23-Sep-2024

Test Period: From 11-Sep-2024 to 25-Sep-2024

Add Information:

Test Summary:

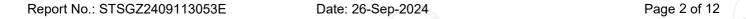
# Test Item(s)	Reference Standard/Method	Result
Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DBP, BBP, DEHP and DIBP EU RoHS Directive 2011/65/EU and its amendment directives (EU) 2015/863 (RoHS)	IEC 62321-3-1:2013 IEC 62321-4:2013+A1:2017 IEC 62321-5:2013 IEC 62321-6:2015 IEC 62321-7-1:2015 IEC 62321-7-2:2017 IEC 62321-8:2017	PASS

Signed for and on behalf of ST

Mark Mai (Technical Director) TESTING SERVICES







Result:

1.1 EU RoHS Directive 2011/65/EU and its amendment directives on XRF IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Son No	Tested Part(s)			Result	s	
Seq. No.			Cd	Hg	Cr	Br
1	Silvery metal,shell	BL	BL	BL	BL	NA
2	White plastic,plate	BL	BL	BL	BL	BL
3	Black plastic,base	BL	BL	BL	BL	BL
4	White soft plastic,wire jacket	BL	BL	BL	BL	BL
5	Grey soft plastic,wire jacket	BL	BL	BL	BL	BL
6	Coppery metal,wire core	BL	BL	BL	BL	NA
7	Yellow body,LED	BL	BL	BL	BL	Х
8	Orange body,LED	BL	BL	BL	BL	Х
9	Silvery metal,solder	Х	BL	BL	BL	NA
10	Silvery metal,plate	BL	BL	BL	BL	NA
11	Transparent plastic,holder	BL	BL	BL	BL	BL
12	Brown body,capacitor	BL	BL	BL	BL	BL
13	Black body,resistor	BL	BL	BL	BL	BL
14	Black body,IC	BL	BL	BL	BL	BL
15	Black body,audion	BL	BL	BL	BL	BL
16	Golden metal,plate	BL	BL	BL	BL	NA
17	Silvery metal,ring holder	BL	BL	BL	BL	NA
18	Black printed blue plastic,film	BL	BL	BL	BL	BL
19	Silvery metal,screw	BL	BL	BL	Х	NA
20	Translucent dry glue,holder	BL	BL	BL	BL	BL
21	Red soft plastic,wire jacket	BL	BL	BL	BL	BL
22	Black soft plastic,wire jacket	BL	BL	BL	BL	BL
23	Silvery metal,contact plate	BL	BL	BL	BL	NA



Report No.: STSGZ2409113053E Date: 26-Sep-2024 Page 3 of 12

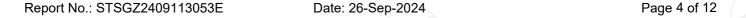
24	White plastic,plug	BL	BL	BL	BL	BL
25	Beige plastic,base	BL	BL	BL	BL	BL
26	Silvery metal,lead	BL	BL	BL	BL	NA
27	White body,LED	BL	BL	BL	BL	Х
28	Silvery metal,USB	BL	BL	BL	BL	NA
29	Black soft plastic,plug	BL	BL	BL	BL	BL
30	Black soft plastic,wire jacket	BL	BL	BL	BL	BL
31	Silvery metal,plug	BL	BL	BL	BL	NA
32	White plastic,holder	BL	BL	BL	BL	BL
33	Silvery metal,pin	BL	BL	BL	BL	NA
34	Black soft plastic,thin wire jacket	BL	BL	BL	BL	BL
35	Red soft plastic,thin wire jacket	BL	BL	BL	BL	BL
36	Silvery metal,USB holder	BL	BL	BL	BL	NA
37	Grey plastic,holder	BL	BL	BL	BL	BL
38	Golden metal,pin Silvery metal,pin holder		BL	BL	BL	NA
39			BL	BL	BL	NA
40	Silvery metal,solder	BL	BL	BL	BL	NA

Remark:

(1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ< X <130+3σ≤OL	BL≤70-3σ< X <130+3σ≤OL	BL≤50-3σ< X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ< X <1300+3σ≤OL	BL≤700-3σ< X <1300+3σ≤ OL	BL≤500-3σ< X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ< X <1300+3σ≤OL	BL≤700-3σ< X <1300+3σ≤OL	BL≤500-3σ< X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ< X	BL≤700-3σ< X	BL≤500-3σ< X
Br	mg/kg	BL≤300-3σ< X		BL≤250-3σ< X





Note:

BL = Below Limit

OL = Over Limit

X = Inconclusive

NA = Not Applicable

- (2) The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (3) The maximum permissible limit is quoted from the document 2011/65/EU and its amendment directives (EU) 2015/863:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)				
Cadmium (Cd)	100				
Lead (Pb)	1000				
Mercury (Hg)	1000				
Hexavalent Chromium (Cr(VI))	1000				
Polybrominated biphenyls (PBBs)	1000				
Polybrominated diphenyl ethers (PBDEs)	1000				

(4) Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes. The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect(e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

(5) Materials #9 is the test results of the resubmitted sample

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Page 5 of 12 Report No.: STSGZ2409113053E Date: 26-Sep-2024

1.2 **Hexavalent Chromium (Cr(VI))**

Metal: IEC 62321-7-1:2015, extracted by boiling water and analyzed by UV-Vis Non-metal: IEC 62321-7-2:2017, alkaline digested and analyzed by UV-Vis

	Compound	Material	Limit	DI.	
	Compound	19	Limit	RL	
1	Hexavalent Chromium (Cr(VI))	Negative	#		
	Conclusion	PASS	-	-	

Remark(s) (a) ug/cm²: microgram per square centimeter

(b) RL: Report Limit

(c) Negative = Sample Cr(VI) concentration is less than 0.10 ug/cm² Positive = Sample Cr(VI) concentration is greater than 0.13 ug/cm²

(d) # = Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as conflict with RoHS requirement.

Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as no conflict with RoHS requirement.

1.3 Lead Content (Pb)

IEC62321-5:2013, acid digested and determined by AAS

	Material		Limit	RL
Compound		9	(mg/kg)	(mg/kg)
1	Lead (Pb)	491	1000	10
	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligrams per kilogram

(b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

Polybrominated Biphenyls and Polybrominated Diphenyl Ethers (PBBs and PBDEs)

IEC 62321-6:2015, solvent extract and determined by GC/MS

Commonad			Limit	RL		
	Compound	7	8	27	(mg/kg)	(mg/kg)
1	Monobromo biphenyl	N.D.	N.D.	N.D.	- (50
2	Dibromo biphenyl	N.D.	N.D.	N.D.	- 8	50
3	Tribromo biphenyl	N.D.	N.D.	N.D.	-	50



REPORT

Page 6 of 12 Report No.: STSGZ2409113053E Date: 26-Sep-2024

4	Tetrabromo biphenyl	N.D.	N.D.	N.D.	(-)	50
5	Pentabromo biphenyl	N.D.	N.D.	N.D.		50
6	Hexabromo biphenyl	N.D.	N.D.	N.D.	-	50
7	Heptabromo biphenyl	N.D.	N.D.	N.D.	-	50
8	Octabromo biphenyl	N.D.	N.D.	N.D.	-	50
9	Nonabromo biphenyl	N.D.	N.D.	N.D.	-	50
10	Decabromo biphenyl	N.D.	N.D.	N.D.	-	50
11	Monobromo diphenyl ether	N.D.	N.D.	N.D.	-	50
12	Dibromo diphenyl ether	N.D.	N.D.	N.D.	/ <u>-</u>	50
13	Tribromo diphenyl ether	N.D.	N.D.	N.D.	-	50
14	Tetrabromo diphenyl ether	N.D.	N.D.	N.D.	-	50
15	Pentabromo diphenyl ether	N.D.	N.D.	N.D.	-(50
16	Hexabromo diphenyl ether	N.D.	N.D.	N.D.	-	50
17	Heptabromo diphenyl ether	N.D.	N.D.	N.D.	-	50
18	Octabromo diphenyl ether	N.D.	N.D.	N.D.	-	50
19	Nonabromo diphenyl ether	N.D.	N.D.	N.D.	-	50
20	Decabromo diphenyl ether	N.D.	N.D.	N.D.	-	50
21	Sum of PBBs	N.D.	N.D.	N.D.	1000	-
22	Sum of PBDEs	N.D.	N.D.	N.D.	1000	-
	Conclusion	PASS	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram (b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)



REPORT

Report No.: STSGZ2409113053E Page 7 of 12 Date: 26-Sep-2024

1.5 Phthalates - (DBP, BBP, DEHP, DIBP)

IEC 62321-8:2017, Solvent extract and determined by GC/MS

	0.00		Material					DI (0/)
	Con	npound	2+3+11	4+5+21	7+8+12	13+14+15	Limit (%)	RL(%)
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
	Conclusion		PASS	PASS	PASS	PASS	-	-

	Compound			Material		Limit (%)	DI (9/)	
	Con	ipouliu	18	20	22+34+35	24+25+32	LIIIII (76)	RL(%)
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
	Conclusion		PASS	PASS	PASS	PASS	-	-

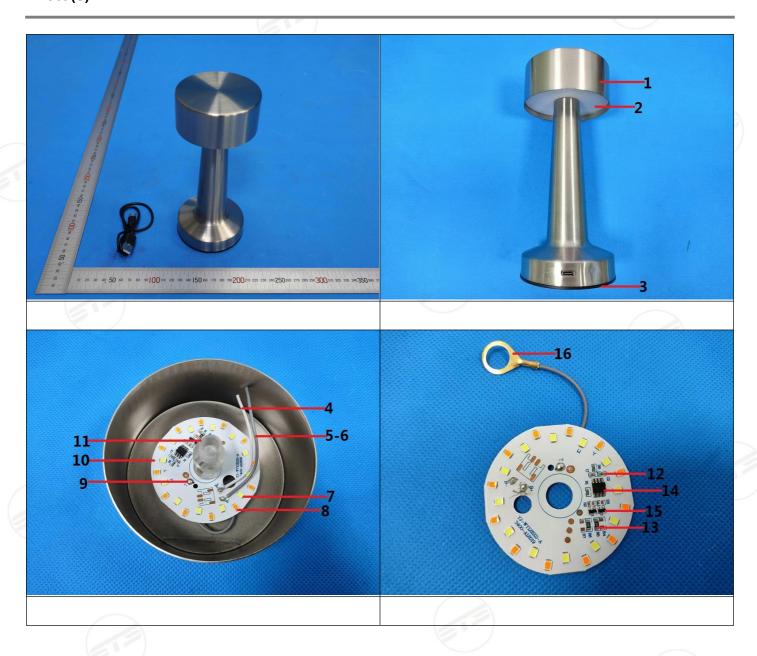
	Compound		Material			Limit (0/)	DL (0/)
			27 29+30		37	Limit (%)	RL(%)
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	0.1	0.005
	Conclusion		PASS	PASS	PASS	-	-

Remark(s): (a) RL: Report limit (b) N.D.: Not detected (result is less than RL)



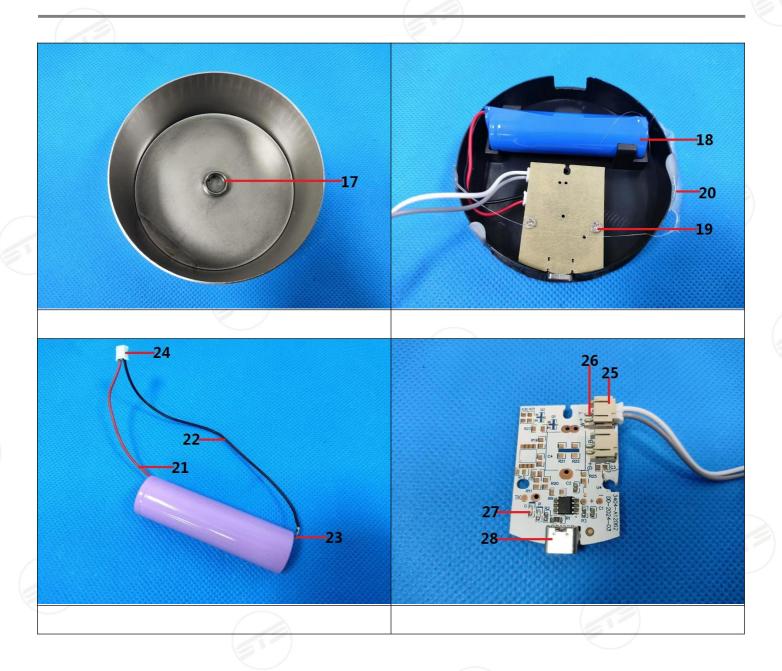
Report No.: STSGZ2409113053E Date: 26-Sep-2024 Page 8 of 12

Photo(s):



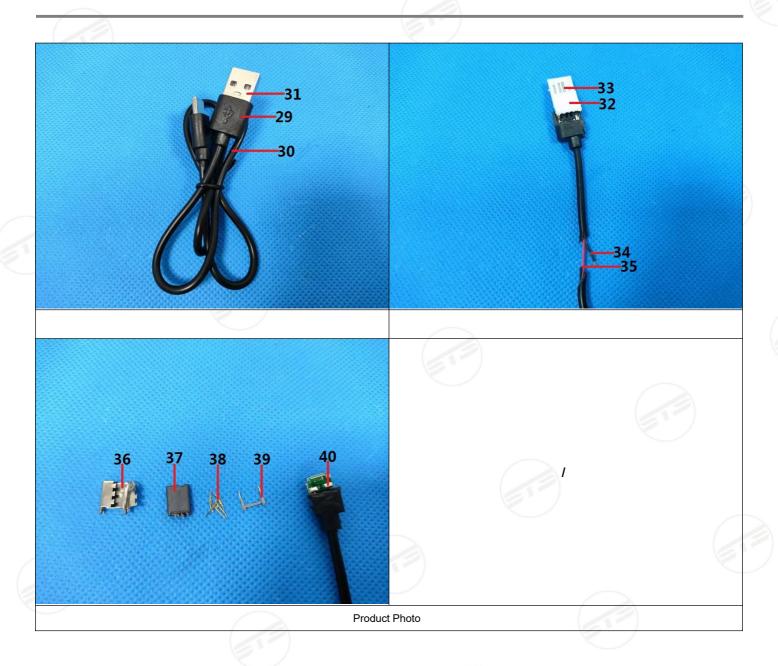


Report No.: STSGZ2409113053E Date: 26-Sep-2024 Page 9 of 12



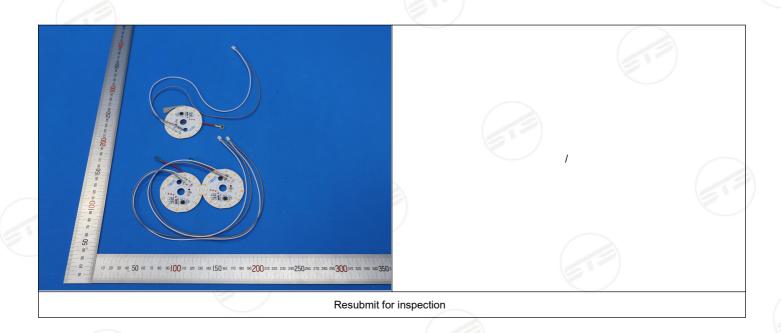


Report No.: STSGZ2409113053E Date: 26-Sep-2024 Page 10 of 12





Report No.: STSGZ2409113053E Date: 26-Sep-2024 Page 11 of 12



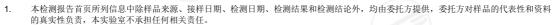
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Report No.: STSGZ2409113053E Date: 26-Sep-2024 Page 12 of 12

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