		EST REF	ORT	
Report No.: STSGZ2212	2053032E	Date: 13-Dec-202	22	Page 1 of 10
		(E)	\supset	
Applicant :	Mid Ocean Bra	ands B.V.		
Address:	7/F., Kings Tov	wer, 111 King Lam Street	, Cheung Sha Wan, Ko	wloon, Hong Kong
The following sample(s)	and sample inform	mation was/were submitte	ed and identified by clier	nt as:
Sample Name:	Lighter long			
Model/Style/Item #:	MO9651			
Receiving Date:	5-Dec-2022			
Test Period:	From 5-Dec-2	2022 to 9-Dec-2022		
Add Information:				

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
	Lead, Cadmium, Mercury, Hexavalent Chromium,	IEC 62321-3-1:2013 IEC 62321-4:2013+A1:2017	
1	PBBs, PBDEs, DBP, BBP, DEHP and DIBP	IEC 62321-5:2013 IEC 62321-6:2015	PASS
'	EU RoHS Directive 2011/65/EU and its amendment directives (EU) 2015/863 (RoHS)	IEC 62321-7-1:2015	
		IEC 62321-7-2:2017 IEC 62321-8:2017	
*	*****	****	*****
		Signed for and an habelf of CTP	BUHUA TEST SC
		Signed for and on behalf of ST	SEPUHUA TEST OF
		Signed for and on behalf of ST	SEPUHUA TEST SE
		Signed for and on behalf of STA	FUHUA TEST OF
		North 10	TESTING SERVICES
		Signed for and on behalf of ST Mark Mai (Technical Director)	ERUHUA TEST SK TESTING SERVICES
		Mark Mai	TESTING SERVICES

Guangzhou Depuhua Test Services Co. Ltd. e-mail: stsgz@stsapp.com





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Result:

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

0	Tested Part(a)			Result	S	
Seq. No.	Tested Part(s)	Pb	Cd	Hg	Cr	Br
1	Black coating,case	BL	BL	BL	BL	BL
2 3	Silvery metal,case	BL	BL	BL	BL	NA
	Silvery coating,case	BL	BL	BL	BL	BL
4	Black plastic,case	BL	BL	BL	BL	BL
5	Silvery metal,case	BL	BL	BL	BL	NA
6	Black plastic,plate	BL	BL	BL	BL	BI
7	Black plastic,holder	BL	BL	BL	BL	BI
8	Silvery metal,case	BL	BL	BL	BL	N
9	Silvery metal,axle	BL	BL	BL	BL	N/
10	Matte black plastic,holder	BL	BL	BL	BL	BI
11	Silvery metal,spring	BL	BL	BL	Х	N/
12	Transparent soft plastic, wire cover	BL	BL	BL	BL	BI
13	Silvery metal,wire core	BL	BL	BL	BL	N
14	Silvery metal,solder	BL	BL	BL	BL	N
15	Black plastic,cover	BL	BL	BL	BL	BI
16	Black resin, seal	BL	BL	BL	BL	BI
17	Silvery gray plastic film	BL	BL	BL	BL	BI
18	White soft plastic,wire jacket		BL	BL	BL	B
19	Coppery enamelled wire Silvery metal,screw		BL	BL	BL	BI
20			BL	BL	X	N
21	Silvery metal,case	BL	BL	BL	BL	N
22	Black plastic,holder	BL	BL	BL	BL	ВІ
23	Silvery metal,contact pin	BL	BL	BL	BL	N/

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24	Black body,capacitor	BL	BL	BL	BL	BL
25	Brown body,resistor	BL	BL	BL	BL	BL
26	Black body,IC	BL	BL	BL	BL	BL
27	Silvery metal,case	BL	BL	BL	BL	NA
28	White plastic,button	BL	BL	BL	BL	BL
29	Silvery metal,spring plate	BL	BL	BL	BL	NA
30	Black plastic,holder	BL	BL	BL	BL	BL
31	Silvery metal,lead	BL	BL	BL	BL	NA
32	Silvery metal,solder	BL	BL	BL	BL	NA
33	Green PCB	BL	BL	BL	BL	X
34	Transparent body,led		BL	BL	BL	Х
35	Blue soft plastic,wire jacket	BL	BL	BL	BL	BL

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	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

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- (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.

Hexavalent Chromium (Cr(VI)) 1.2

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	Mate	Linait	Ы		
	Compound	11	20	Limit	RL	
1	Hexavalent Chromium (Cr(VI))	Negative	Negative	#	-	
	Conclusion	PASS	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.

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1.3 Polybrominated Biphenyls and Polybrominated Diphenyl Ethers (PBBs and PBDEs) IEC 62321-6:2015, solvent extract and determined by GC/MS

				/		
	0 a mar a mar d	Mate	erial	Limit	RL	
	Compound	33	34	(mg/kg)	(mg/kg)	
1	Monobromo biphenyl	N.D.	N.D.	-	50	
2	Dibromo biphenyl	N.D.	N.D.	-	50	
3	Tribromo biphenyl	N.D.	N.D.	-	50	
4	Tetrabromo biphenyl	N.D.	N.D.	-	50	
5	Pentabromo biphenyl	N.D.	N.D.	7 -	50	
6	Hexabromo biphenyl	N.D.	N.D.	-	50	
7	Heptabromo biphenyl	N.D.	N.D.	-	50	
8	Octabromo biphenyl	N.D.	N.D.	· _	50	
9	Nonabromo biphenyl	N.D.	N.D.		50	
10	Decabromo biphenyl	N.D.	N.D.	-	50	
11	Monobromo diphenyl ether	N.D.	N.D.	-	50	
12	Dibromo diphenyl ether	N.D.	N.D.	-	50	
13	Tribromo diphenyl ether	N.D.	N.D.	-	50	
14	Tetrabromo diphenyl ether	N.D.	N.D.	-	50	
15	Pentabromo diphenyl ether	N.D.	N.D.		50	
16	Hexabromo diphenyl ether	N.D.	N.D.	2	50	
17	Heptabromo diphenyl	N.D.	N.D.	-	50	
18	Octabromo diphenyl ether	N.D.	N.D.	-	50	
19	Nonabromo diphenyl ether	N.D.	N.D.	- /	50	
20	Decabromo diphenyl ether	N.D.	N.D.	- (50	
21	Sum of PBBs	N.D.	N.D.	1000	-	

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	2				
22	Sum of PBDEs	N.D.	N.D.	1000	-
	Conclusion	PASS	PASS	-	-

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

(b) RL: Report limit

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

1.5 Phthalates – (DBP, BBP, DEHP, DIBP) IEC 62321-8:2017, Solvent extract and determined by GC/MS

				Material		Material			L insit (0/)	
	Con	npound	1+3	4+6+7	10	12	– 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	-	-		

	Corr			Mate	erial		– Limit (%)		
	Con	npound	15	16	17	18		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	
	Conclu	sion	PASS	PASS	PASS	PASS	-	-	
	1				Nee Y I				

Compound		Material				l imit $(9/)$	DI (%)	
		19	22	24+25+26	28+30	Limit (%)	RL(%)	
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005

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	Conclu	sion	PASS	PASS	PASS	PASS	-	-	
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	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	
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005	

	Com	nound		L implif (9/)	DI (9/)		
	Con	npound	33	34	35	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)

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Photo(s):

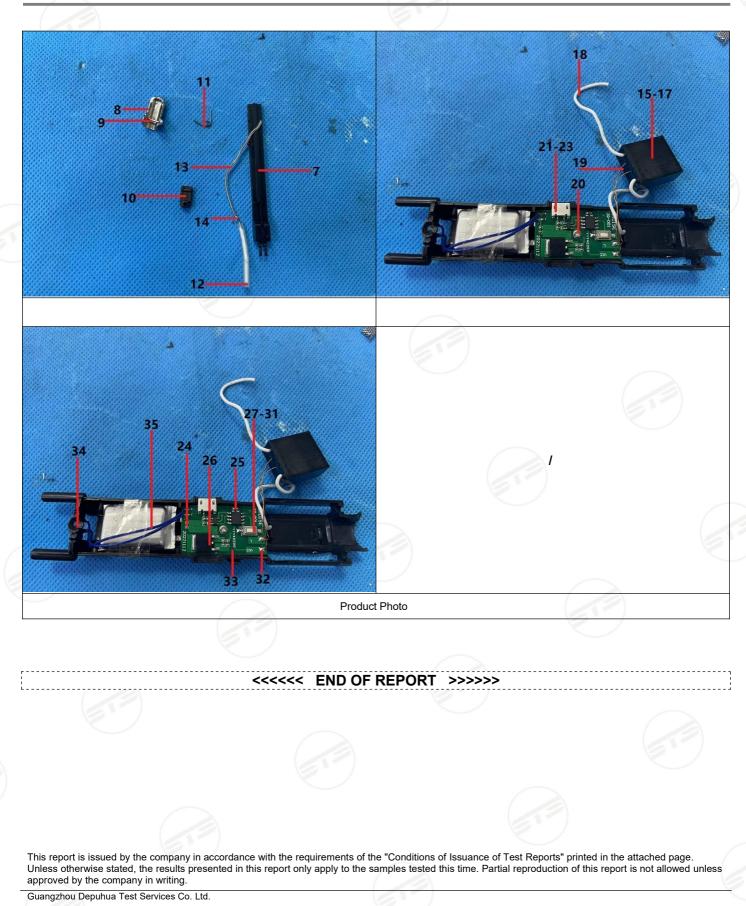






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Guangzhou Depuhua Test Services Co. Ltd.

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Conditions of Issuance of Test Reports



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