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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: Rechargeable portable small juicer

Model/Style/Item #: MO2574

vendor code: 107978

Receiving Date: 27-Nov-2024,6-Dec-2024

Test Period: From 27-Nov-2024 to 11-Dec-2024

Add Information:

### **Test Summary:**

#	Test Item(s)	Reference Standard/Method	Result
1	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

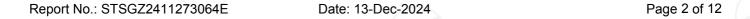
Signed for and on behalf of STS

TESTING SERVICES

Mark Mai

(Technical Director)





### 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)

San Na	Tested Part(s)		Results				
Seq. No.			Cd	Hg	Cr	Br	
1	Dark blue soft plastic,belt	BL	BL	BL	BL	BL	
2	Dark blue plastic,lid	BL	BL	BL	BL	BL	
3	Translucent silicone, sealring	BL	BL	BL	BL	BL	
4	Transparent plastic,cup body	BL	BL	BL	BL	BL	
5	Rose red coating,cover	BL	BL	BL	BL	BL	
6	Black plastic,cover	BL	BL	BL	BL	BL	
7	Dark grey/grey coating,button	BL	BL	BL	BL	BL	
8	Translucent plastic,button	BL	BL	BL	BL	BL	
9	Dark blue plastic,bottom	BL	BL	BL	BL	BL	
10	Black foam,cushion	BL	BL	BL	BL	BL	
11	Black soft plastic,wire jacket	BL	BL	BL	BL	BL	
12	Red soft plastic,wire jacket Silvery metal,wire core		BL	BL	BL	BL	
13			BL	BL	BL	NA	
14	Silvery metal,contact plate	BL	BL	BL	BL	NA	
15	Black printed light purple plastic,cover	BL	BL	BL	BL	BL	
16	Silvery metal,blade	BL	BL	BL	BL	NA	
17	Silvery metal,screw		BL	BL	Х	NA	
18	Black soft plastic,thin wire jacket	BL	BL	BL	BL	BL	
19	Red soft plastic,thin wire jacket	BL	BL	BL	BL	BL	
20	White plastic,holder	BL	BL	BL	BL	BL	
21	Silvery metal,contact pin	BL	BL	BL	BL	NA	
22	Black plastic,button	BL	BL	BL	BL	BL	
23	Silvery metal,cover	BL	BL	BL	BL	NA	
24	Silvery metal,spring plate	BL	BL	BL	BL	NA	



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25	Silvery metal,solder	BL	BL	BL	BL	NA
26	Green PCB	BL	BL	BL	BL	Х
27					BL	NA
28	Grey plastic,holder	BL	BL	BL	BL	BL
29	Silvery metal,contact pin	BL	BL	BL	BL	NΑ
30	Black body,MOS	BL	BL	BL	BL	BL
31	Black body,IC	BL	BL	BL	BL	BL
32	Black body,resistor	BL	BL	BL	BL	BL
33	Brown body,capacitor	BL	BL	BL	BL	BL
34	Black body,diode	BL	BL	BL	BL	BL
35	White body,LED	BL	BL	BL	BL	Х
36	Silvery metal,solder	BL	BL	BL	BL	N/
37	Green PCB	BL	BL	BL	BL	Х
38	Black soft plastic,thick wire jacket	BL	BL	BL	BL	BL
39	Red soft plastic,thick wire jacket	BL	BL	BL	BL	BL
40	Silvery metal,solder	BL	BL	BL	BL	N/
41	Translucent plastic,lid	BL	BL	BL	BL	BL
42	Golden metal,contact plate	BL	BL	BL	BL	N/
43	Silvery metal,rivet	BL	BL	BL	BL	N/
44	Coppery metal,contact plate	BL	BL	BL	BL	N/
45	Coppery carbon brush	BL	BL	BL	BL	BL
46	Silvery metal,ring	BL	BL	BL	BL	N/
47	Silvery metal,ring holder	BL	BL	BL	BL	N/
48	Silvery metal,cover	BL	BL	BL	BL	N/
49	Black magnet,holder	BL	BL	BL	BL	N/
50	Matte silvery metal, belt	BL	BL	BL	BL	N/
51	Silvery metal,ring	BL	BL	BL	BL	N/
52	Matte silvery metal, plate	BL	BL	BL	BL	N/
53	Dark coppery enamelled wire	BL	BL	BL	BL	BL



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54	54 Green coating, surface			BL	BL	BL
55	Silvery metal,ring	BL	BL	BL	BL	NA
56	White plastic,holder	BL	BL	BL	BL	BL
57	Coppery metal,contact plate	BL	BL	BL	BL	NA
58	Silvery metal,axle	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





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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) The selection of test portions was recommended by the client and the conclusion of chemical test is only for the selected portions.
- (6) Materials #25 and #40 are the test results of the resubmitted sample

#### 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.
		17	Limit	RL
1	Hexavalent Chromium (Cr(VI))	Negative	#	-
	Conclusion	PASS	-	-

Remark(s) (a) ug/cm<sup>2</sup>: microgram per square centimeter

(b) RL: Report Limit

(c) Negative = Sample Cr(VI) concentration is less than 0.10 ug/cm<sup>2</sup>

Positive = Sample Cr(VI) concentration is greater than 0.13 ug/cm<sup>2</sup>
(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

Compound			Limit	RL			
	Compound	26 35		37	(mg/kg)	(mg/kg)	
1	Monobromo biphenyl	N.D.	N.D.	N.D.	-	50	
2	Dibromo biphenyl	N.D.	N.D.	N.D.	-	50	
3	Tribromo biphenyl	N.D.	N.D.	N.D.	-	50	
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.	-	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	-	



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

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

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

#### 1.4

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

	Com	Material		Material			Limit (0/)	DI (9/)
	Compound		1+3	2+4+6	5	7	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	-	-

	Com	anound	Material		Limit (9/)	DI (9/)		
	Compound		8+9	10	11+12	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			Mate	1 : :	DI (9/)				
	Compound		18+19	20+22+28	26	30+31+32	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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	Conclusion		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

Compound				Mat	Limit (0/)	DI (0/)		
			33+34+35	37	38+39	41+56	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				L impit (0/)	DI (0/)		
			45	53	54	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)



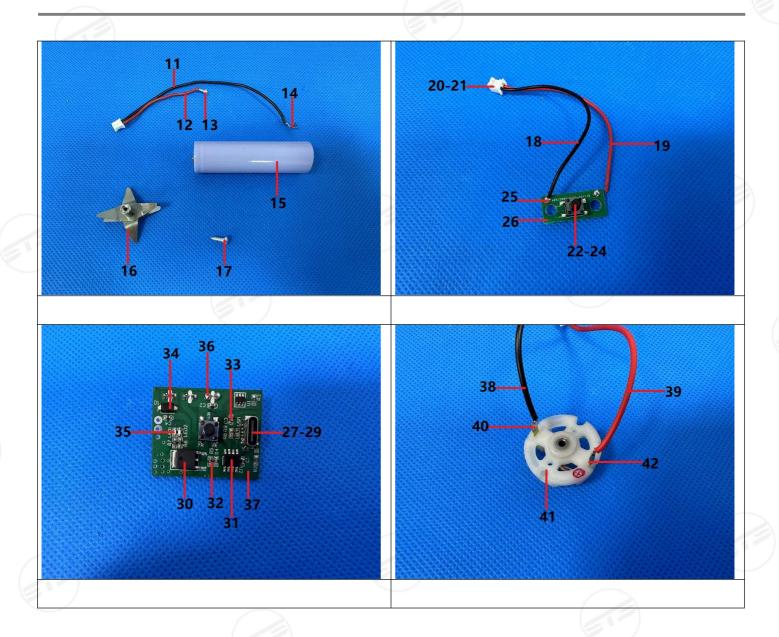
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### Photo(s):



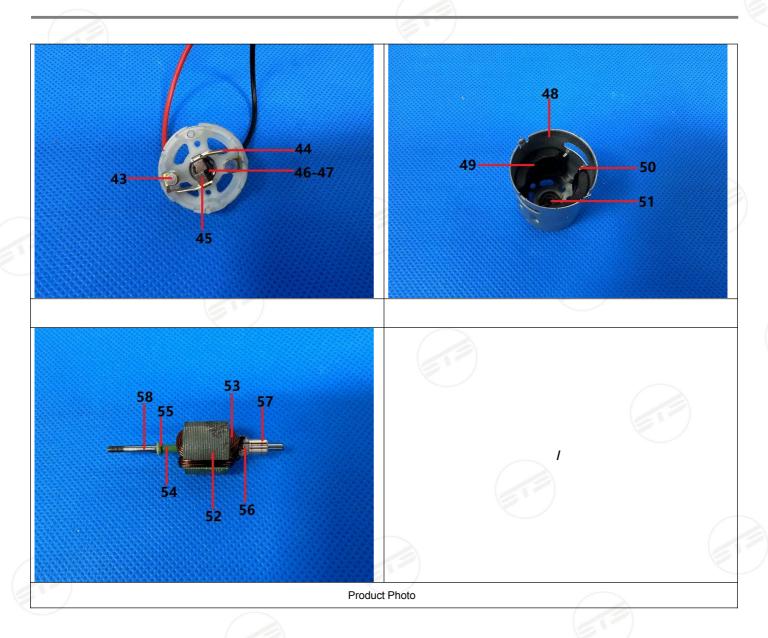


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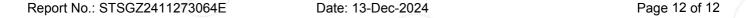
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