



Test Report

Applicant name:	Shenzhen Liangwei Technology Co.,Ltd
Applicant address:	7F, B Building, Huafeng International Robotics Industrial Park, Gushu, Xixiang Street, Bao'an, Shenzhen

Sample information:

Sample Name:	Air Pump
Sample Model:	LW-A-2001, LW-A-2002, LW-A-2003, LW-A-2004, LW-A-2005, LW-A-2006, LW-A-2007, LW-A-2008, LW-A-2009, LW-A-2010
Trade mark :	N/A
Manufacturer:	Shenzhen Liangwei Technology Co.,Ltd 7F, B Building, Huafeng International Robotics Industrial Park, Gushu, Xixiang Street, Bao'an, Shenzhen
Sample Received Date:	Mar.17,2021
Testing Period:	Mar.17,2021~Mar.23,2021

Test Requested As specified by client, to determine the Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DEHP, BBP, DBP & DIBP content in the submitted sample compliance with RoHS directive 2011/65/EU Annex II amending Annex (EU)2015/863 and amending Annex (EU)2017/2102.

Test Method:

Tested Item(s)	Test Method	Measured Equipment(s)	MDL
Lead(Pb)	IEC 62321-5:2013	ICP-OES	2mg/kg
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES	2mg/kg
Mercury(Hg)	IEC 62321-4:2013+A1:2017	ICP-OES	2mg/kg
Hexavalent Chromium(Cr(VI))	IEC 62321-7-1:2015 IEC 62321-7-2:2017	UV-VIS	2mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	5mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS	5mg/kg
Di-(2-ethylhexyl) phthalate(DEHP)	IEC 62321-8:2017	GC-MS	50mg/kg
Benzylbutyl phthalate(BBP)	IEC 62321-8:2017	GC-MS	50mg/kg
Dibutyl phthalate (DBP)	IEC 62321-8:2017	GC-MS	50mg/kg
Diisobutyl phthalate(DIBP)	IEC 62321-8:2017	GC-MS	50mg/kg

Test Result(s) Please refer to the following page(s).

Test by : James Huang

Inspected by : Robert Chen

Approved by : Kevin Yang
Technical Manager

Date : Mar.23,2021





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Test Result:

No.	Part Name	Restricted Substances	Limit (mg/kg)	Test Results
01	Air nozzle	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr ⁶⁺	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
02	USB line	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr ⁶⁺	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
03	Plastic cover	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr ⁶⁺	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
04	Switch button	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr ⁶⁺	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.



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No.	Part Name	Restricted Substances	Limit (mg/kg)	Test Results
05	Plastic housing	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr ⁶⁺	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
06	Air pump	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr ⁶⁺	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
07	Battery	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr ⁶⁺	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
08	Interior line	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr ⁶⁺	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.



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No.	Part Name	Restricted Substances	Limit (mg/kg)	Test Results
09	Electrolytic capacitor	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr ⁶⁺	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
10	LED	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr ⁶⁺	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
11	LED gasket	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr ⁶⁺	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
12	USB connector	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr ⁶⁺	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.



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No.	Part Name	Restricted Substances	Limit (mg/kg)	Test Results
13	Switch	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr ⁶⁺	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
14	IC	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr ⁶⁺	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
15	Chip diode	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr ⁶⁺	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
16	Chip resistor	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr ⁶⁺	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.



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No.	Part Name	Restricted Substances	Limit (mg/kg)	Test Results
17	Chip capacitor	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr ⁶⁺	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
18	PCB	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr ⁶⁺	1000	N.D.
		PBBs	1000	N.D.
		PBDEs	1000	N.D.
		DEHP	1000	N.D.
		BBP	1000	N.D.
		DBP	1000	N.D.
		DIBP	1000	N.D.
19	Soldering	Pb	1000	N.D.
		Cd	100	N.D.
		Hg	1000	N.D.
		Cr ⁶⁺	1000	N.D.
		PBBs	1000	-
		PBDEs	1000	-
		DEHP	1000	-
		BBP	1000	-
		DBP	1000	-
		DIBP	1000	-

Note:

N.D. =Not Detected(<MDL)

mg/kg = ppm =parts per million

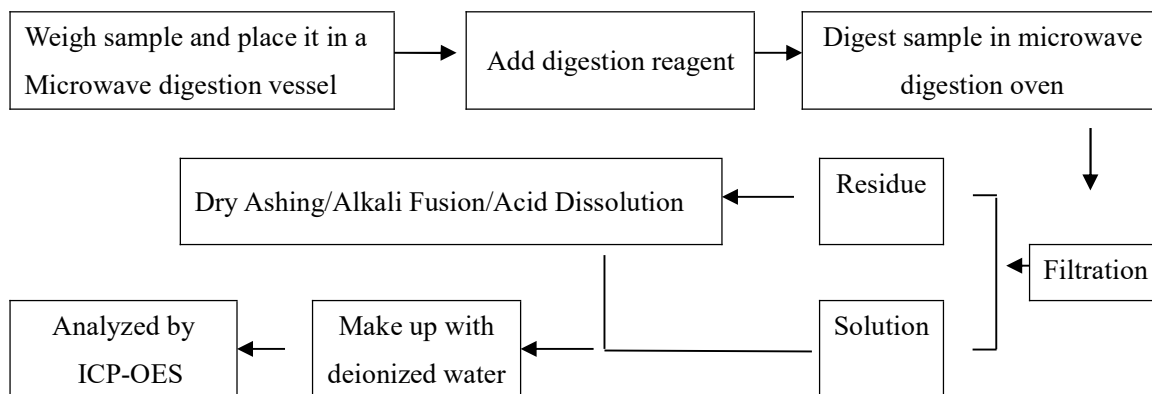
“- ”=Not specified



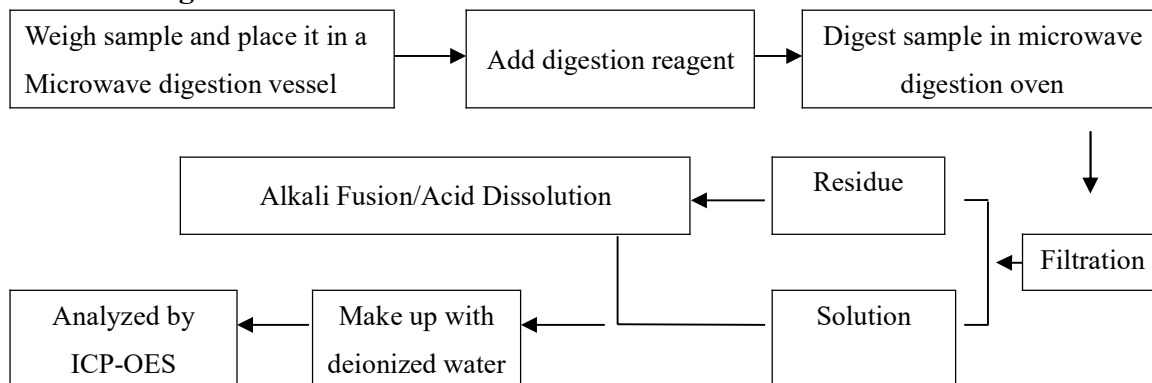
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Test process

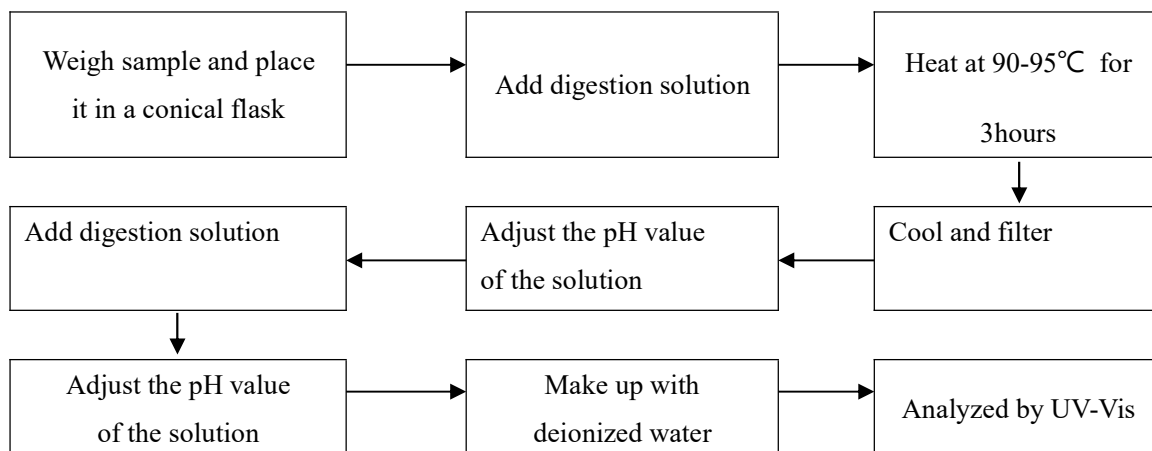
1. Test for Pb/Cd Content



2. Test for Hg Content



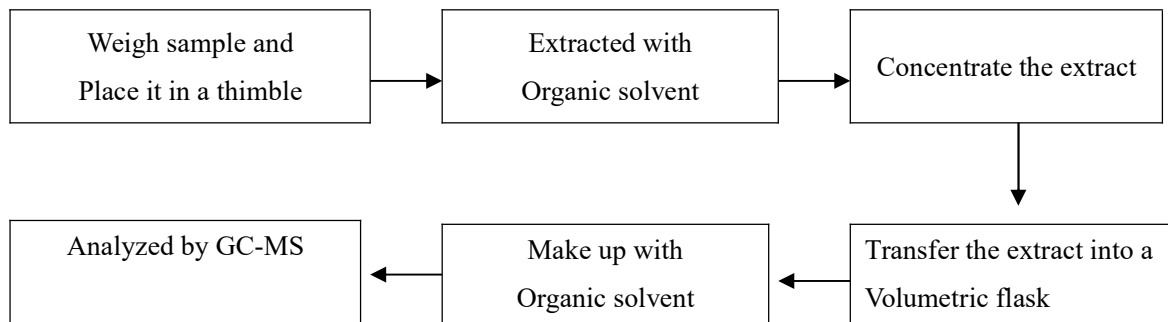
3. Test for Chromium (VI) Content



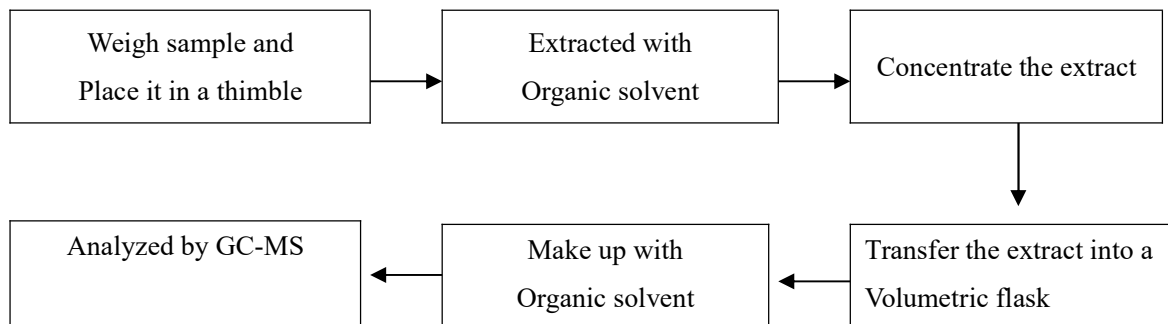


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4. Test for PBBs/PBDEs Content



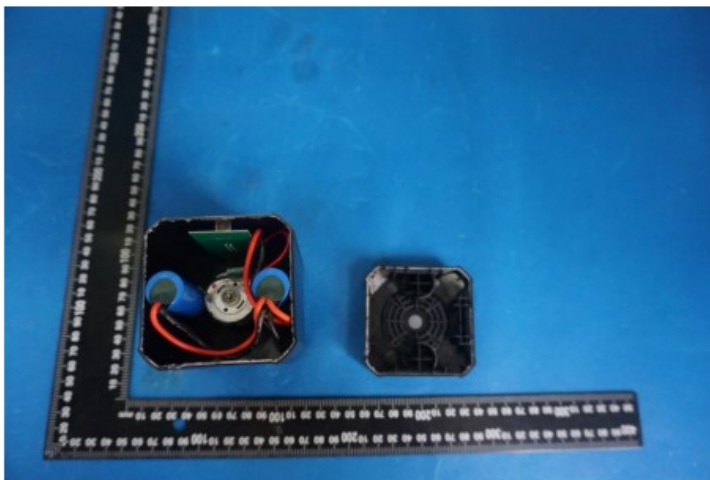
5. Phthalates Content





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Photo(s) of the sample(s)



*** End of report ***

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