



RoHS Test Report

Applicant name:	
Applicant address:	

Sample information:

Sample Name:	Wireless Powerbank
Sample Model:	
Trade mark :	N/A
Manufacturer:	Shenzhen Mossloo Industrial Co.,Ltd No.4,Road One,Shangxue Industrial Area,Bantian Street,Longgang District, Shenzhen,China
Sample Received Date:	Oct.31,2019
Testing Period:	Oct.31,2019 ~ Nov.06,2019

Test Requested

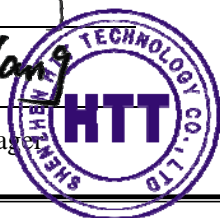
As specified by client, to determine the Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DEHP, BBP, DBP & DIBP content in the submitted sample compliance with RoHS directive 2011/65/EU Annex II amending Annex (EU)2015/863 and amending Annex (EU)2017/2102.

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 Date: Nov.06,2019
Technical Manager





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1、Disassembly components

No.	Part Name
01	White plastic shell
02	Silver plastic cover
03	Battery
04	Copper coil
05	Rubber ring
06	Magnetic disk
07	coil
08	PCB
09	IC
10	LED
11	Ceramic capacitor
12	Chip capacitor
13	chip resistor
14	diode
15	Triode
16	inductance
17	Button
18	USB type-A interface
19	USB type-C interface
20	USB micro interface
21	Soldering
22	Insulating tape



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Test Result(1):

Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs Content

RoHS Directive 2011/65/EU Annex II amending Annex (EU)2015/863 and amending Annex (EU)2017/2102.

Tested Item(s)	Results						Limit	MDL
	01	02	03	04	05	06		
Lead(Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	2
Cadmium(Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	2
Mercury(Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	2
Hexavalent Chromium(Cr(VI))	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	2
Polybrominated Biphenyls (PBBs)								
Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Trbromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Tetrabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Pentabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Nonabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Decabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Sum of PBBs	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	-
Polybrominated Diphenyl Ethers(PBDEs)								
Monobromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Dibromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Tribromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Pentabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Hexabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Heptabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Octabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Nonabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Decabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Sum of PBDES	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	-



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Tested Item(s)	Results						Limit	MDL
	07	08	09	10	11	12		
Lead(Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	2
Cadmium(Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	2
Mercury(Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	2
Hexavalent Chromium(Cr(VI))	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	2
Polybrominated Biphenyls (PBBs)								
Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Trbromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Tetrabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Pentbromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Nonabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Decabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Sum of PBBs	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	-
Polybrominated Diphenyl Ethers(PBDEs)								
Monobromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Dibromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Tribromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Pentabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Hexabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Heptabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Octabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Nonabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Decabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Sum of PBDES	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	-



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Tested Item(s)	Results						Limit	MDL
	13	14	15	16	17	18		
Lead(Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	2
Cadmium(Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	2
Mercury(Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	2
Hexavalent Chromium(Cr(VI))	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	2
Polybrominated Biphenyls (PBBs)								
Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Trbromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Tetrabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Pentbromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Nonabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Decabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Sum of PBBs	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	-
Polybrominated Diphenyl Ethers(PBDEs)								
Monobromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Dibromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Tribromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Pentabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Hexabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Heptabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Octabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Nonabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Decabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-	5
Sum of PBDES	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	-



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Tested Item(s)	Results				Limit	MDL
	19	20	21	22		
Lead(Pb)	N.D.	N.D.	N.D.	N.D.	1000	2
Cadmium(Cd)	N.D.	N.D.	N.D.	N.D.	100	2
Mercury(Hg)	N.D.	N.D.	N.D.	N.D.	1000	2
Hexavalent Chromium(Cr(VI))	N.D.	N.D.	N.D.	N.D.	1000	2
Polybrominated Biphenyls (PBBs)						
Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	-	5
Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	-	5
Trbromobiphenyl	N.D.	N.D.	N.D.	N.D.	-	5
Tetrabromobiphenyl	N.D.	N.D.	N.D.	N.D.	-	5
Pentbromobiphenyl	N.D.	N.D.	N.D.	N.D.	-	5
Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	-	5
Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	-	5
Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	-	5
Nonabromobiphenyl	N.D.	N.D.	N.D.	N.D.	-	5
Decabromobiphenyl	N.D.	N.D.	N.D.	N.D.	-	5
Sum of PBBs	N.D.	N.D.	N.D.	N.D.	1000	-
Polybrominated Diphenyl Ethers(PBDEs)						
Monobromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	-	5
Dibromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	-	5
Tribromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	-	5
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	-	5
Pentabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	-	5
Hexabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	-	5
Heptabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	-	5
Octabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	-	5
Nonabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	-	5
Decabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	-	5
Sum of PBDES	N.D.	N.D.	N.D.	N.D.	1000	-



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Test Result(2):

Di-(2-ethylhexyl) phthalate, Benzylbutyl phthalate, Dibutyl phthalate and Diisobutyl phthalate RoHS Directive 2011/65/EU Annex II amending Annex (EU)2015/863 and amending Annex (EU)2017/2102.

Tested Item(s)	Results						Limit	MDL
	01	02	03	04	05	06		
Di-(2-ethylhexyl) phthalate(DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	50
Benzylbutyl phthalate(BBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	50
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	50
Diisobutyl phthalate(DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	50

Tested Item(s)	Results						Limit	MDL
	07	08	09	10	11	12		
Di-(2-ethylhexyl) phthalate(DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	50
Benzylbutyl phthalate(BBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	50
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	50
Diisobutyl phthalate(DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	50

Tested Item(s)	Results						Limit	MDL
	13	14	15	16	17	18		
Di-(2-ethylhexyl) phthalate(DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	50
Benzylbutyl phthalate(BBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	50
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	50
Diisobutyl phthalate(DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000	50

Tested Item(s)	Results				Limit	MDL
	19	20	21	22		
Di-(2-ethylhexyl) phthalate(DEHP)	N.D.	N.D.	N.D.	N.D.	1000	50
Benzylbutyl phthalate(BBP)	N.D.	N.D.	N.D.	N.D.	1000	50
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	1000	50
Diisobutyl phthalate(DIBP)	N.D.	N.D.	N.D.	N.D.	1000	50



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Note:

MDL = Method Detection Limit

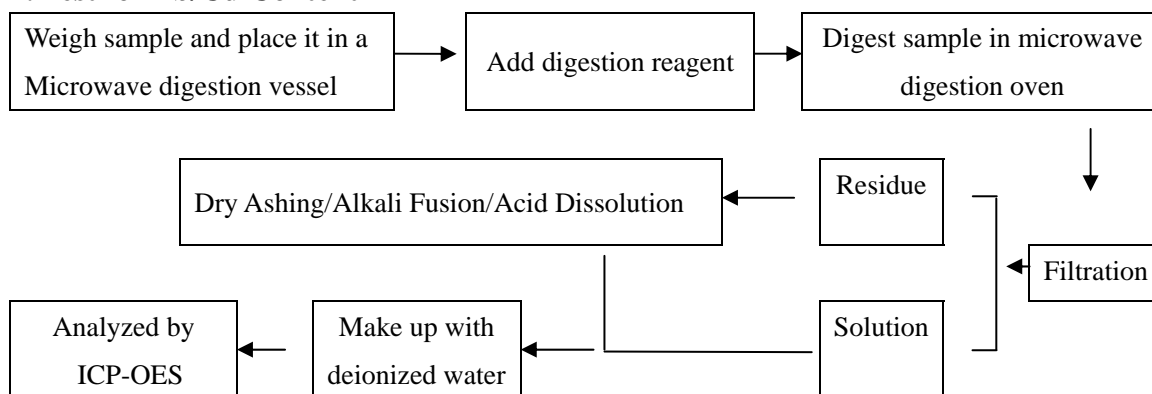
N.D. =Not Detected(<MDL)

mg/kg = ppm =parts per million

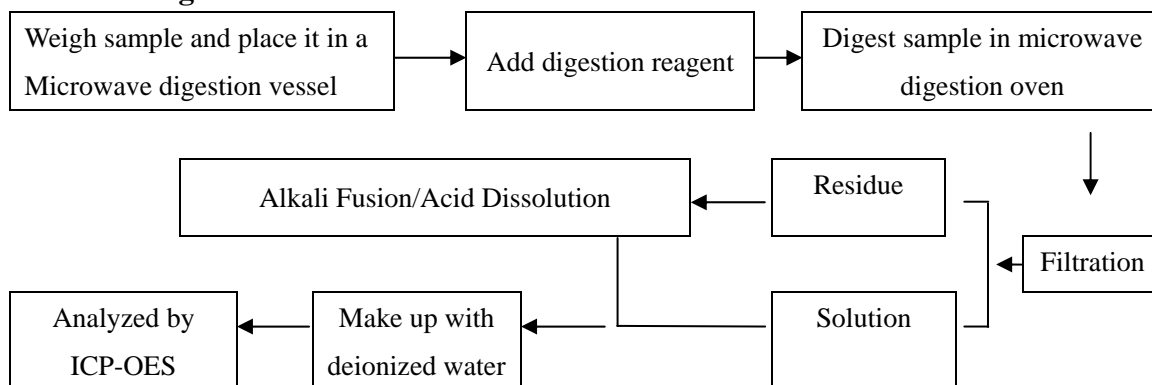
“-”=Not specified

Test process

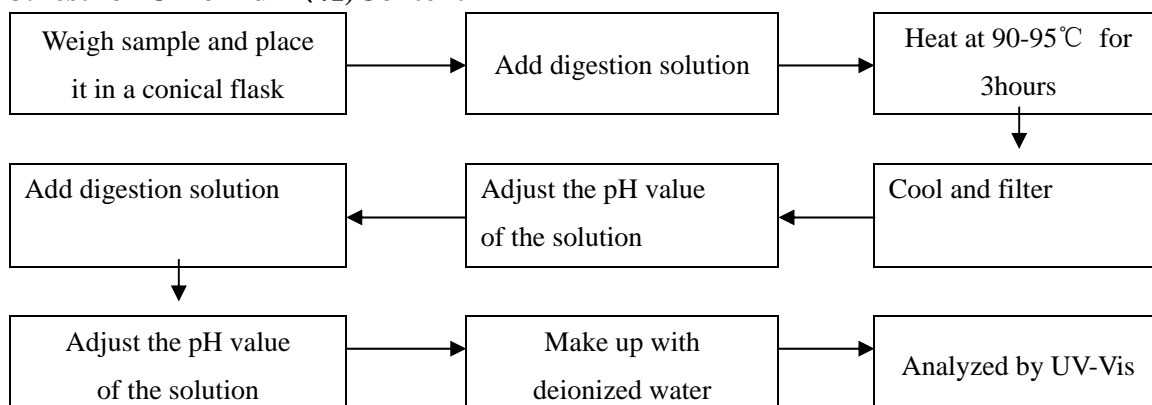
1. Test for Pb/Cd Content



2. Test for Hg Content



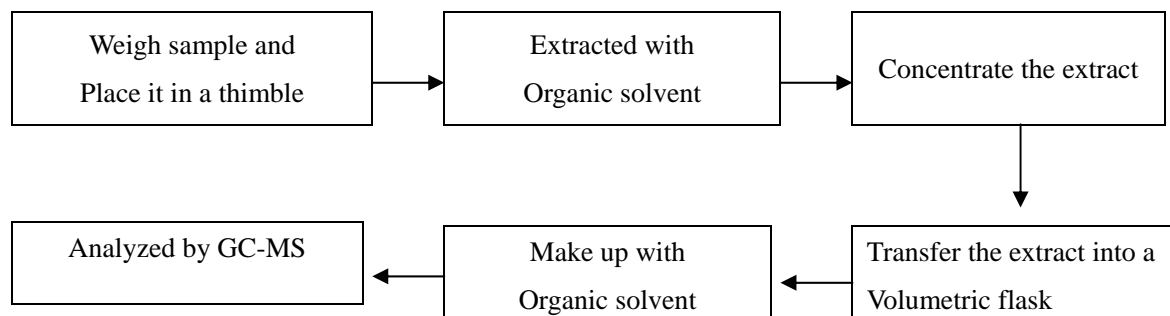
3. Test for Chromium (VI) Content



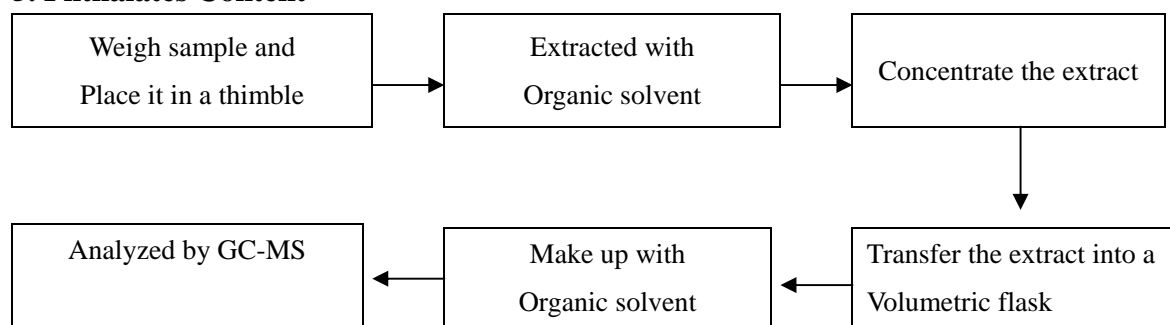


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4. Test for PBBs/PBDEs Content



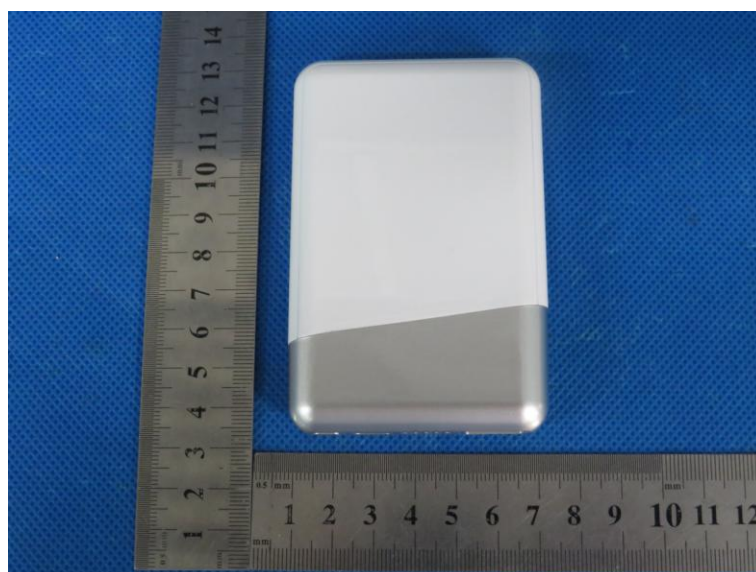
5. Phthalates Content





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Photo(s) of the sample(s)



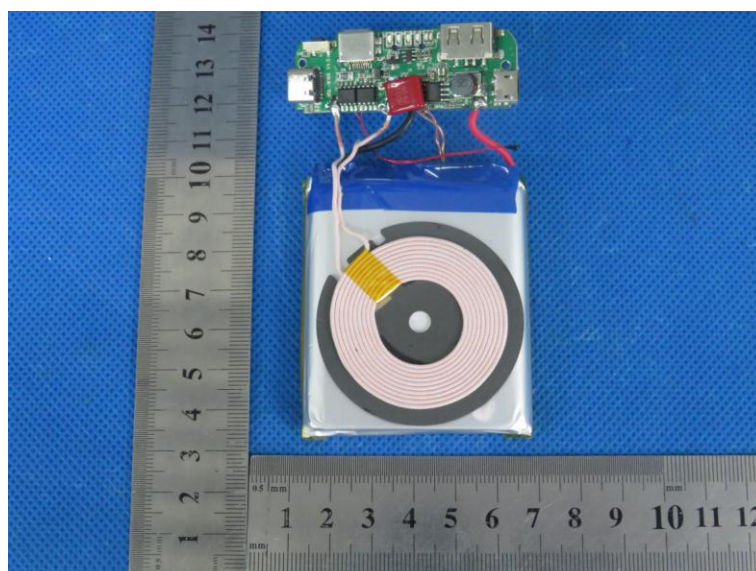
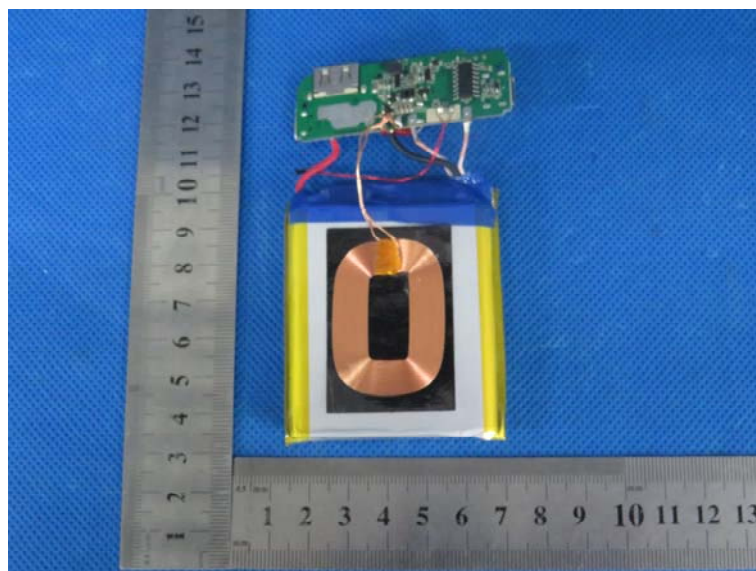


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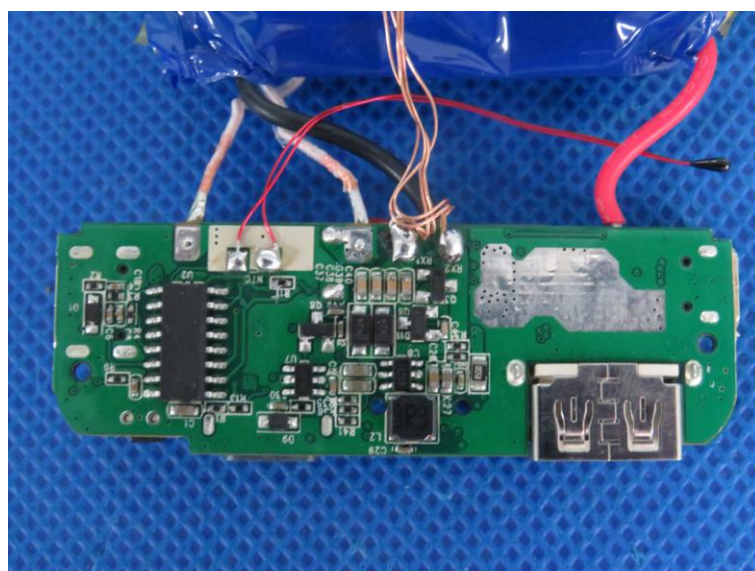
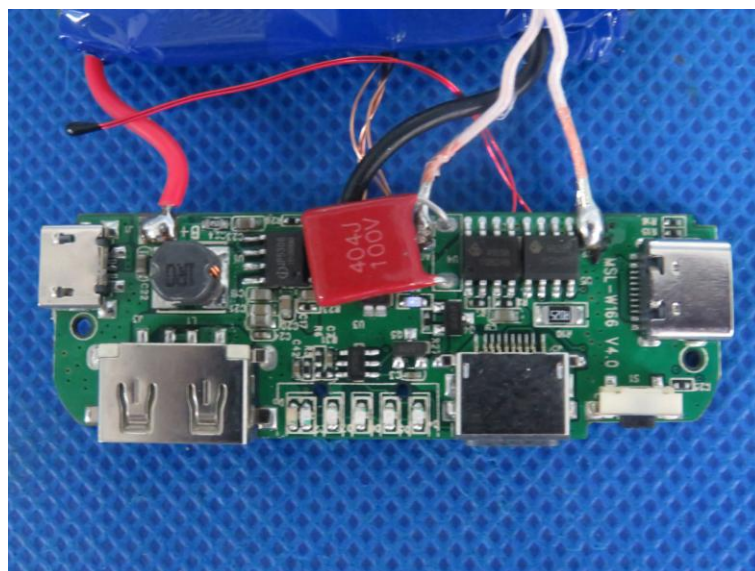


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*** End of report ***

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