



TEST REPORT

Report No.: STR18046016R

Date: 2018-04-19

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Applicant :

Applicant Address :

The following sample was submitted by the client as:

Manufacturer :

Address :

Sample Description : PVC Wireless Charger

Style/Item No. : PWCP-011, PWCP-XYZ (X means number 0 to 9, Y means number 0 to 9, Z means number 0 to 9)

Brand Name : N/A

Sample Receiving Date : Apr. 16, 2018




Test Period : Apr. 16, 2018 to Apr. 19, 2018

Test Requested:

As requested by the applicant, test(s) was/were performed as below:

Test Summary	Conclusion
1 European Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (XRF screening and chemical confirm)	PASS

Test Results: Please refer to following page(s).

Tested by:  May li	Reviewed by:  Boly Peng	Approved by:  Jandyso
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Declaration:

- (1) The report shall not be reproduced partly without the written approval of the laboratory, except in full produced.
- (2) All the results shown in the report apply to the tested sample, any erasion on the report is invalid
- (3) All tested sample will be kept for one month, if there is any doubt about the test result, please inform within this period



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RoHS hazardous substances test

Test method:

IEC 62321-3-1:2013, XRF screening

IEC 62321-4-2013 for Hg, analyzed by ICP-OES

IEC 62321-5-2013 for Cd and Pb, analyzed by ICP-OES

IEC 62321-7-2:2017 method 7.1 and/or IEC 62321-7-1:2015 for Cr⁶⁺, analyzed by UV-VIS

IEC 62321-6-2015 for PBBs and PBDEs, analyzed by GC-MS

1. XRF results:

No.	Sample name	Part name	Sample Description	Results				
				Pb	Cd	Hg	Cr	Br
1	PVC Wireless Charger	Shell	Yellow PVC	BL	BL	BL	BL	BL
2			Black PVC	BL	BL	BL	BL	BL
3			Red PVC	BL	BL	BL	BL	BL
4		Charging board	Body	BL	BL	BL	IN	NA
5			Core of cable	BL	BL	BL	BL	NA
6		Screw	Silvery metal	BL	BL	BL	BL	NA
7		Capacitance	Body	BL	BL	BL	BL	NA
8			Silvery metal	BL	BL	BL	BL	NA
9		IC U1	Body	BL	BL	BL	BL	BL
10			Silvery metal	BL	BL	BL	BL	NA
11		IC	Body	BL	BL	BL	BL	IN
12			Silvery metal	BL	BL	BL	BL	NA
13		USB socket	Black plastic	BL	BL	BL	BL	BL
14			Silvery metal	BL	BL	BL	BL	NA
15			Lead	BL	BL	BL	BL	NA
16		Solder	Solder	BL	BL	BL	BL	NA
17		PCB	PCB	BL	BL	BL	BL	IN

2. Chemical confirm results:

Test Item(s)	Result (mg/kg)					Limit (mg/kg)
	4	—	—	—	—	
Hexavalent Chromium (Cr ⁶⁺)	Negative	Negative	Negative	Negative	Negative	—
Comment	PASS	PASS	PASS	PASS	PASS	—

Test Item(s)	Result (mg/kg)					Limit (mg/kg)
	11	17	—	—	—	



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Mono-PBB	ND	ND	ND	ND	ND	--
Di-PBB	ND	ND	ND	ND	ND	--
Tri-PBB	ND	ND	ND	ND	ND	--
Tetra-PBB	ND	ND	ND	ND	ND	--
Penta-PBB	ND	ND	ND	ND	ND	--
Hexa-PBB	ND	ND	ND	ND	ND	--
Hepta-PBB	ND	ND	ND	ND	ND	--
Octa-PBB	ND	ND	ND	ND	ND	--
Nona-PBB	ND	ND	ND	ND	ND	--
Deca-PBB	ND	ND	ND	ND	ND	--
Sum of PBBs	ND	ND	ND	ND	ND	1000
Mono-PBDE	ND	ND	ND	ND	ND	--
Di- PBDE	ND	ND	ND	ND	ND	--
Tri- PBDE	ND	ND	ND	ND	ND	--
Tetra- PBDE	ND	ND	ND	ND	ND	--
Penta- PBDE	ND	ND	ND	ND	ND	--
Hexa- PBDE	ND	ND	ND	ND	ND	--
Hepta- PBDE	ND	ND	ND	ND	ND	--
Octa- PBDE	ND	ND	ND	ND	ND	--
Nona- PBDE	ND	ND	ND	ND	ND	--
Deca- PBDE	ND	ND	ND	ND	ND	--
Sum of PBDEs	ND	ND	ND	ND	ND	1000
Comment	PASS	PASS	PASS	PASS	PASS	--

Remark:

1. BL = below limit
2. OL = over limit
3. IN = inconclusive, chemical confirm test is recommended
4. NA = not applicable
5. mg/kg = milligram per kilogram = ppm
6. Method Detection Limit (MDL) :10mg/kg for Pb, Cd, Hg and Cr⁶⁺; 10mg/kg for PBB and PBDE
7. ND = not detected
8. Negative = The Cr⁶⁺ concentration is below the limit of quantification. The coating is considered a non-Cr⁶⁺ based coating.
9. Positive = The Cr⁶⁺ concentration is above the limit of quantification and the statistical margin of error, The sample coating is considered to contain Cr⁶⁺.

Note:

1. When perform screening tests, it is the result on total Br while test item on restricted substances is PBBs/PBDEs, it is the result on total Cr while test item on restricted substances is Cr⁶⁺.

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2. Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-VIS (for Cr⁶⁺) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration falls into the inconclusive area according to IEC 62321-3-1:2013 (unit: mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	---	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

3. The XRF screening test for RoHS elements. The reading may be different to the actual content in the sample be of non-uniformity composition.
4. # the lead content of tested component exceeded 1000ppm, but less than 40000ppm, it can comply with the RoHS directive, as it is exempted to contain lead with up to 40000ppm according to item 6(c) of annex III of 2011/65/EU, as per applicant's declaration.

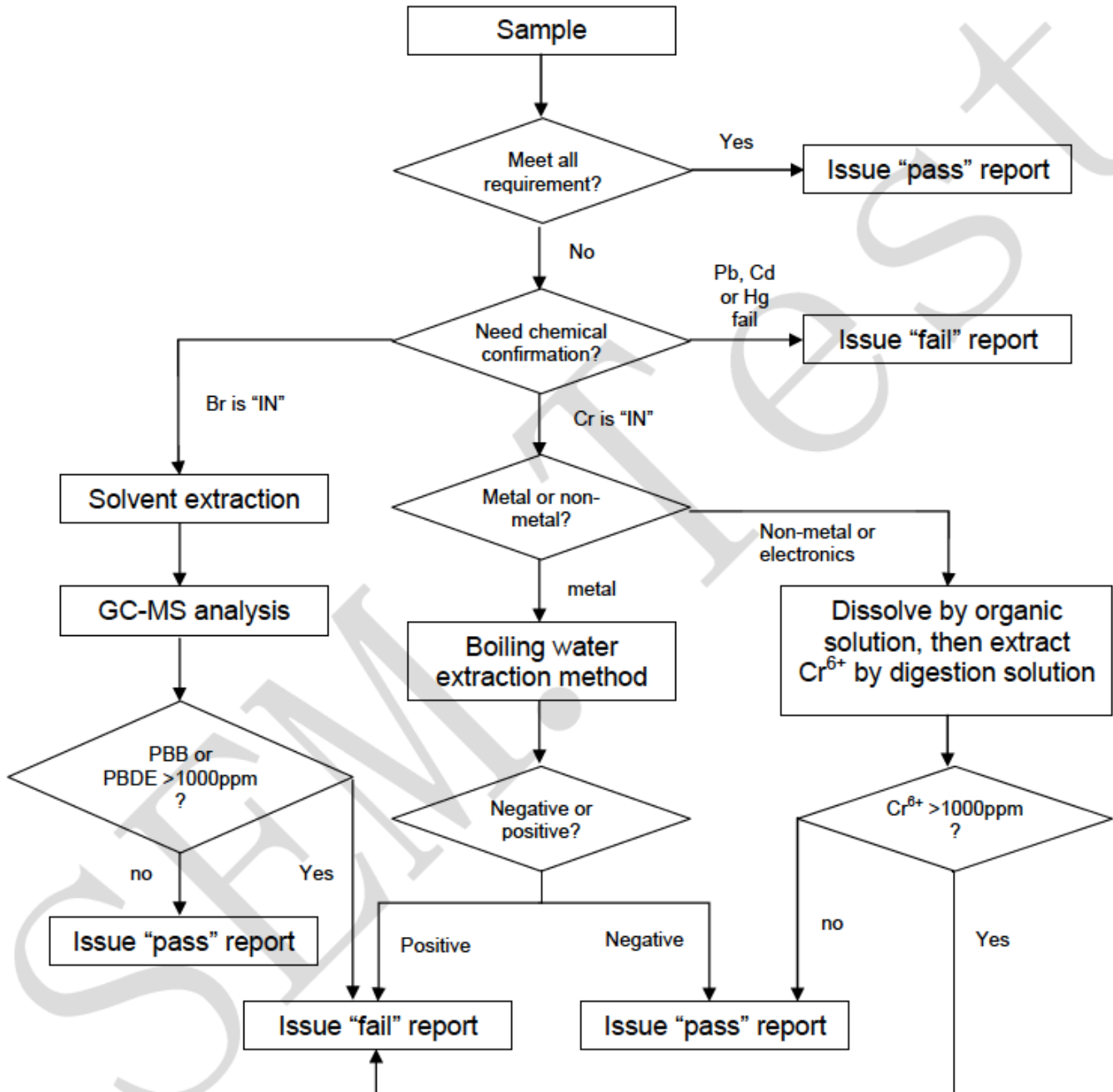
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Test flow:



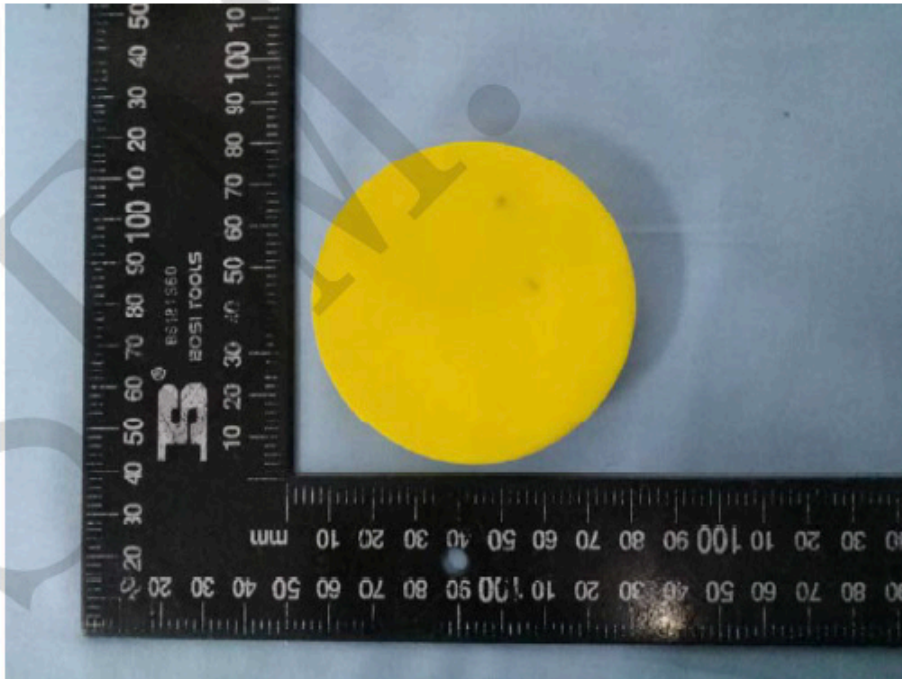
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Tested sample photo:



— End of Report —