

Test Report

Report No.: AGC-03507-19-09-10-002

Date: Sep.29, 2019

Page1 of 13

Applicant:

Address:

Test site: 1,6/F.,Building 2,No. 1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong, China

Report on the submitted sample(s) said to be:

Sample Name: Travel adapter

Model No.: 2624

Item No.: 9197

Country of Origin: CHINA

Country of Destination: EUROPE

Sample Received Date: Sep.19, 2019

Testing Period: Sep.19, 2019 to Sep.29, 2019

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

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

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

Approved by: 

Liulinwen, Lewis

Technical Director



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Test Report

Report No.: AGC-03507-19-09-10-002

Date: Sep.29, 2019

Page2 of 13

Test Requested:

Conclusion

1. As specified by client, to determine the Polycyclic Aromatic Hydrocarbons (PAHs) content in the submitted sample(s) with reference to entry 50, Annex XVII of the REACH Regulation (EC) No 1907/2006.

Pass

2. As specified by client, to determine the Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content in the submitted sample in accordance with Directive 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863 on XRF and Chemical Method.

Pass

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Test Report

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Date: Sep.29, 2019
Page3 of 13
1. Test Result(s) of Polycyclic Aromatic Hydrocarbons (PAHs)

Unit: mg/kg

Test Item(s)	Test Method /Equipment	MDL	Result(s)		Limit
			1-1	1-2	
Benzo[a]anthracene (BaA)	AfPS GS 2014:01 PAK GC-MS	0.1	N.D.	N.D.	1
Chrysene (CHR)		0.1	N.D.	N.D.	1
Benzo[b]fluoranthene (BbFA)		0.1	N.D.	N.D.	1
Benzo[k]fluoranthene (BkFA)		0.1	N.D.	N.D.	1
Benzo[j]fluoranthene (BjFA)		0.1	N.D.	N.D.	1
Benzo[a]pyrene (BaP)		0.1	N.D.	N.D.	1
Benzo[e]pyrene(BeP)		0.1	N.D.	N.D.	1
Dibenzo[a,h]anthracene (DBAhA)		0.1	N.D.	N.D.	1
Sum of 8 PAHs		—	N.D.	N.D.	—
Conclusion		/	Pass	Pass	/

Unit: mg/kg

Test Item(s)	Test Method /Equipment	MDL	Result(s)		Limit
			1-3	1-4	
Benzo[a]anthracene (BaA)	AfPS GS 2014:01 PAK GC-MS	0.1	N.D.	N.D.	1
Chrysene (CHR)		0.1	N.D.	N.D.	1
Benzo[b]fluoranthene (BbFA)		0.1	N.D.	N.D.	1
Benzo[k]fluoranthene (BkFA)		0.1	N.D.	N.D.	1
Benzo[j]fluoranthene (BjFA)		0.1	N.D.	N.D.	1
Benzo[a]pyrene (BaP)		0.1	N.D.	N.D.	1
Benzo[e]pyrene(BeP)		0.1	N.D.	N.D.	1
Dibenzo[a,h]anthracene (DBAhA)		0.1	N.D.	N.D.	1
Sum of 8 PAHs		—	N.D.	N.D.	—
Conclusion		/	Pass	Pass	/

- Note:**
1. MDL=Method Detection Limit
 2. N.D.=Not Detected(less than method detection limit)
 3. “—”=Not regulated
 4. As specified by client, only test the designated sample.

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Test Report

Report No.: AGC-03507-19-09-10-002
Date: Sep.29, 2019
Page4 of 13

Sample Description

1-1	White plastic box
1-2	White plastic shell
1-3	Black plastic box
1-4	Black plastic shell

2.Test Methods:

A:Screening by X-ray Fluorescence Spectrometry (XRF) :With reference to IEC 62321-3-1:2013 Screening – Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry

B:Chemical test:

Test Item	Test Method	Measuring Instrument	MDL
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	2 mg/kg
Lead (Pb)	IEC 62321-5:2013	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4: 2013+A1:2017	ICP-OES	2 mg/kg
Non-metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-2:2017	UV-Vis	1 mg/kg
Metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-1:2015	UV-Vis	/
PBBs/PBDEs	IEC 62321-6:2015	GC-MS	5 mg/kg
Di-iso-butyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	50 mg/kg
Dibutyl phthalate (DBP)		GC-MS	50 mg/kg
Butylbenzyl phthalate (BBP)		GC-MS	50 mg/kg
Di-(2-ethylhexyl) Phthalate (DEHP)		GC-MS	50 mg/kg

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Test Report

Report No.: AGC-03507-19-09-10-002
Date: Sep.29, 2019
Page5 of 13
Test Results:
A、EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
1	White plastic box(American plug)	BL	BL	BL	BL	BL
2	White plastic shell(American plug)	BL	BL	BL	BL	X*
3	Silver screw(American plug)	BL	BL	BL	BL	N/A
4	Metal American standard plug(American plug)	BL	BL	BL	BL	N/A
5	Silver spring(American plug)	BL	BL	BL	BL	N/A
6	Copper contact piece(American plug)	BL	BL	BL	BL	N/A
7	European silver metal plug(European standard plug)	BL	OL*	BL	BL	N/A
8	European copper metal plug(European standard plug)	BL	BL	BL	BL	N/A
9	White plastic shell(European standard plug)	BL	BL	BL	BL	BL
10	Copper contact piece(European standard plug)	BL	BL	BL	BL	N/A
11	Copper screw(European standard plug)	BL	BL	BL	BL	N/A
12	Silver screw(British specification Plug)	BL	BL	BL	BL	N/A
13	Copper contact piece(British specification Plug)	BL	BL	BL	BL	N/A
14	Copper metal screw(British specification Plug)	BL	BL	BL	BL	N/A
15	Silvery metal plug(British specification Plug)	BL	OL*	BL	BL	N/A
16	Metal spring(British specification Plug)	BL	BL	BL	BL	N/A
Black different						
17	Black plastic box	BL	BL	BL	BL	BL
18	Black plastic shell(British specification Plug)	BL	BL	BL	BL	BL
19	Black plastic shell(European standard plug)	BL	BL	BL	BL	BL

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Test Report

Report No.: AGC-03507-19-09-10-002

Date: Sep.29, 2019

Page6 of 13

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	$BL \leq 70-3\sigma < X$ $< 130+3\sigma \leq OL$	$BL \leq 70-3\sigma < X$ $< 130+3\sigma \leq OL$	$BL \leq 50-3\sigma < X$ $< 150+3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700-3\sigma < X$ $< 1300+3\sigma \leq OL$	$BL \leq 700-3\sigma < X$ $< 1300+3\sigma \leq OL$	$BL \leq 500-3\sigma < X$ $< 1500+3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700-3\sigma < X$ $< 1300+3\sigma \leq OL$	$BL \leq 700-3\sigma < X$ $< 1300+3\sigma \leq OL$	$BL \leq 500-3\sigma < X$ $< 1500+3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700-3\sigma < X$	$BL \leq 700-3\sigma < X$	$BL \leq 500-3\sigma < X$
Br	mg/kg	$BL \leq 300-3\sigma < X$	N/A	$BL \leq 250-3\sigma < X$

Note: BL= Below Limit

OL= Over limited

X= Inconclusive

“N/A”= Not applicable

*= Scanning by XRF and detected by chemical method. The test results of chemical method please refer to next pages.

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Test Report

Report No.: AGC-03507-19-09-10-002

Date: Sep.29, 2019

Page7 of 13

Remark:

- i Results were obtained by XRF for primary scanning, 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 above warning value according to IEC 62321-3-1:2013.
- ii The XRF scanning test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- iii The maximum permissible limit is quoted from RoHS directive 2011/65/EU and its amendment directive (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
Polybrominateddiphenylethers (PBDEs)	1000
Di-iso-butyl phthalate (DIBP)	1000
Dibutyl phthalate (DBP)	1000
Butylbenzyl phthalate (BBP)	1000
Di-(2-ethylhexyl) Phthalate (DEHP)	1000

Disclaimers:

This XRF Scanning 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 scanning 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.

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Test Report

Report No.: AGC-03507-19-09-10-002

Date: Sep.29, 2019

Page8 of 13

B、The Test Results of Chemical Method:

1) The Test Results of Pb

Test Item(s)	Unit	Result(s)	
		7	15
Lead(Pb)	mg/kg	36157	23241

Note: N.D. = Not Detected or less than MDL

mg/kg = parts per million

MDL = Method Detection Limit

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Test Report

Report No.: AGC-03507-19-09-10-002
Date: Sep.29, 2019

Page9 of 13

2) The Test Results of PBBs & PBDEs

Unit:mg/kg

Item(s)	MDL	Result(s)	Limit
		2	
Polybrominated Biphenyls (PBBs)			
Monobromobiphenyl	5	N.D.	Total PBBs Content <1000
Dibromobiphenyl	5	N.D.	
Tribromobiphenyl	5	N.D.	
Tetrabromobiphenyl	5	N.D.	
Pentabromobiphenyl	5	N.D.	
Hexabromobiphenyl	5	N.D.	
Heptabromobiphenyl	5	N.D.	
Octabromobiphenyl	5	N.D.	
Nonabromodiphenyl	5	N.D.	
Decabromodiphenyl	5	N.D.	
Total content	/	N.D.	
PolybrominatedDiphenylethers (PBDEs)			
Monobromodiphenyl ether	5	N.D.	Total PBDEs Content <1000
Dibromodiphenyl ether	5	N.D.	
Tribromodiphenyl ether	5	N.D.	
Tetrabromodiphenyl ether	5	N.D.	
Pentabromodiphenyl ether	5	N.D.	
Hexabromodiphenyl ether	5	N.D.	
Heptabromodiphenyl ether	5	N.D.	
Octabromodiphenyl ether	5	N.D.	
Nonabromodiphenyl ether	5	N.D.	
Decabromodiphenyl ether	5	N.D.	
Total content	/	N.D.	
Conclusion	/	Pass	/

Note: N.D. = Not Detected or less than MDL
 mg/kg = parts per million
 MDL = Method Detection Limit

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Test Report

Report No.: AGC-03507-19-09-10-002
Date: Sep.29, 2019

Page10 of 13

3)Test result of DBP, BBP, DEHP, DIBP content

Unit: mg/kg

Limit Seq. No.	Test item	DIBP	DBP	BBP	DEHP	Conclusion
		1000	1000	1000	1000	
1		N.D.	N.D.	N.D.	N.D.	Pass
2		N.D.	N.D.	N.D.	N.D.	Pass
9		N.D.	N.D.	N.D.	N.D.	Pass
17		N.D.	N.D.	N.D.	N.D.	Pass
18		N.D.	N.D.	N.D.	N.D.	Pass
19		N.D.	N.D.	N.D.	N.D.	Pass

Note:

- 1.MDL=Method Detection Limit
- 2.N.D.=Not Detected(less than method detection limit)

Remark:
Exemption

Seq. No	Exemption clause	Content
7 15	6(c)	Copper alloy containing up to 4 % lead by weight

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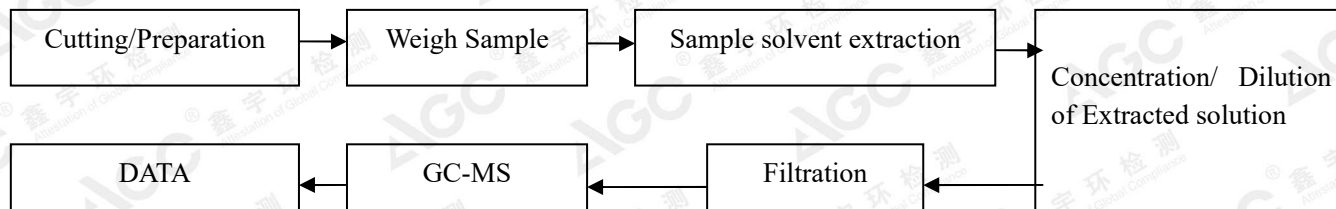
Report No.: AGC-03507-19-09-10-002

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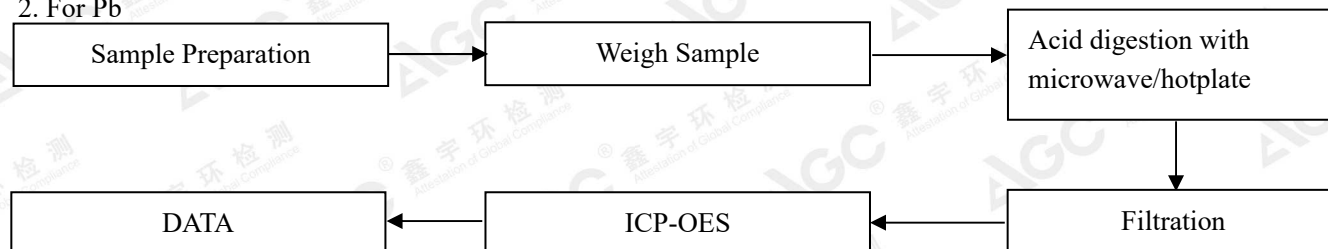
Page11 of 13

Test Flow Chart

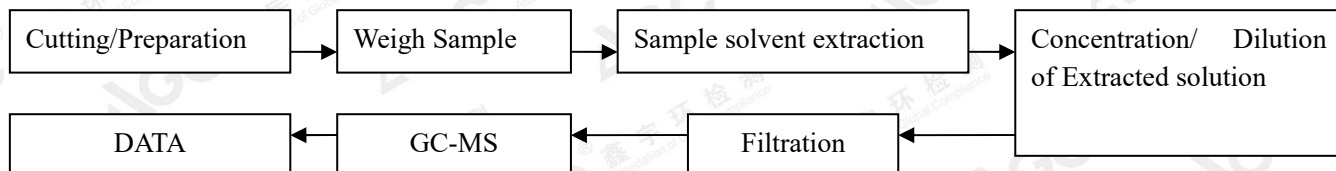
1. For PAHs



2. For Pb



3. For PBBs, PBDEs, DBP, BBP, DEHP, DIBP



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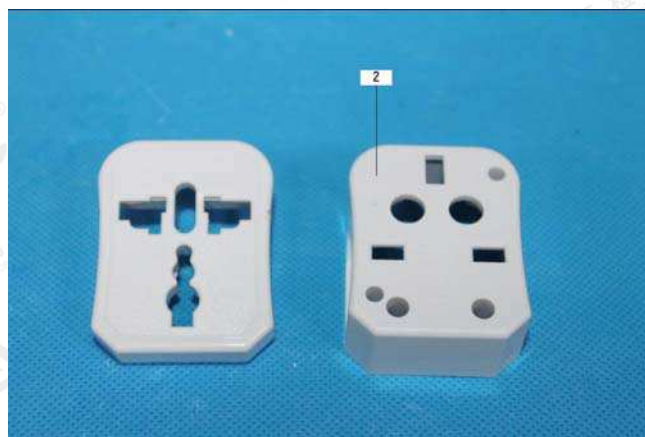
Date: Sep.29, 2019

Page12 of 13

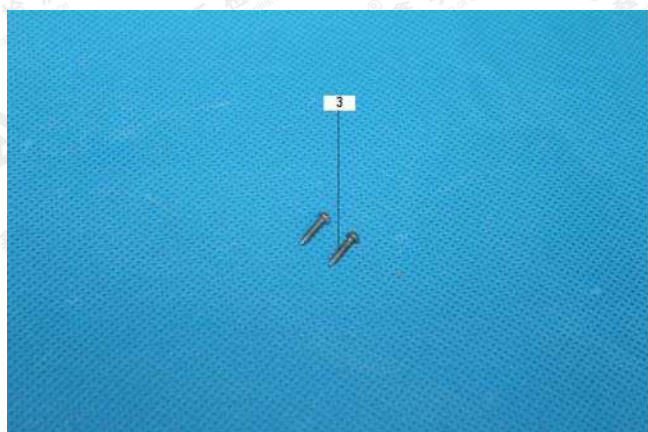
The photo of the sample



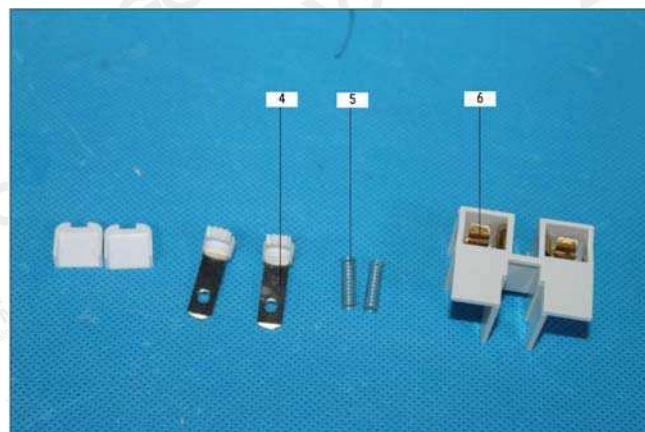
1



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5



6

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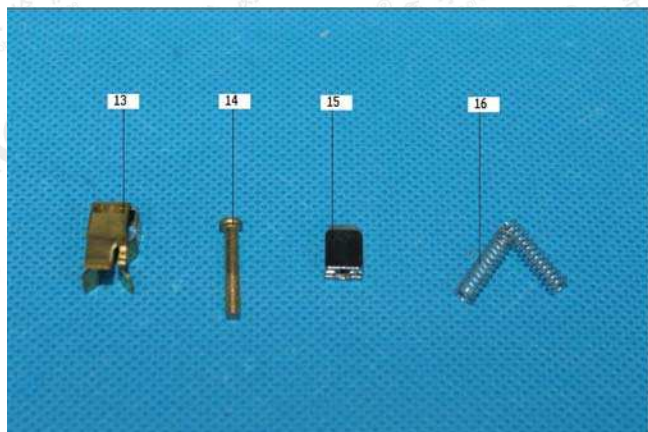
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Test Report

Report No.: AGC-03507-19-09-10-002

Date: Sep.29, 2019

Page13 of 13



7



8



9



10



11

AGC-03507-19-09-10-002

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*** End of Report ***

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