

Test Report

No. SHAMLP1705152302 A01

Date: 12 Apr 2017

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J.F.Pfeiffer AG

Seestrasse 346 8038 Zurich Switzerland

THIS REPORT IS TO SUPERSEDE TEST REPORT NO.SHAMLP1705152301, DATE:2017/03/30.

The following sample(s) was/were submitted and identified on behalf of the clients as : Pfeiffer uWrite Pen Body

SGS Job No. : SHIN1703013966PC - SH

Date of Sample Received : 21 Mar 2017

Testing Period : 21 Mar 2017 - 28 Mar 2017

Test Requested : Selected test(s) as requested by client.

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

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

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Helen Liu

Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA17-051523.001	Black plastic part with colourful coating+Transparent plastic part+black solid part

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method : (1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
 (2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
 (3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
 (4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	2	ND

Notes :

- (1) The maximum permissible limit is quoted from directive 2011/65/EU, Annex II
- (2) Test was conducted on composite of random parts of the item as per client's request and the test result is the overall result.



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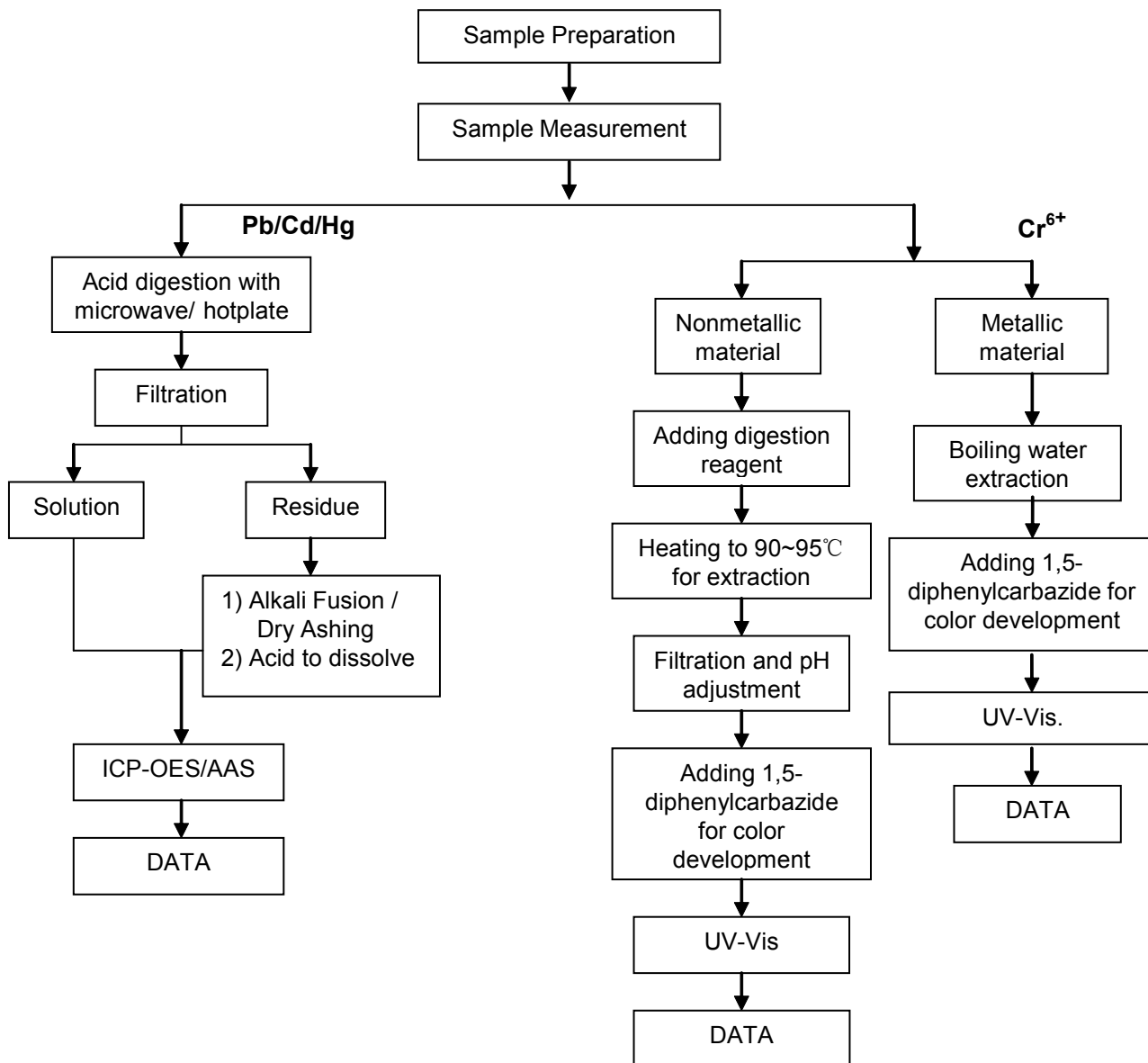
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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Meria Jin/Sielina Song/Sean Li
- 2) Name of the person in charge of testing: Jan Shi/Luna Xu/Shara Wang
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)



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Sample photo:



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*** End of Report ***



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Test Report

No. SHAMLP1705154602 A01

Date: 12 Apr 2017

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J.F.Pfeiffer AG

Seestrasse 346 8038 Zurich Switzerland

THIS REPORT IS TO SUPERSEDE TEST REPORT NO.SHAMLP1705154601, DATE:2017/03/28.

The following sample(s) was/were submitted and identified on behalf of the clients as : Pfeiffer uWrite Gel Refill Tube; Black Ink; Blue Ink; Red Ink; Green Ink; Ink Follower

SGS Job No. : SHIN1703013967PC - SH

Date of Sample Received : 21 Mar 2017

Testing Period : 21 Mar 2017 - 28 Mar 2017

Test Requested : Selected test(s) as requested by client.

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

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

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Helen Liu

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA17-051546.001	Transparent plastic with colorful coating+translucent solid part+white solid part
SN2	SHA17-051546.002	Black liquid
SN3	SHA17-051546.003	Blue liquid
SN4	SHA17-051546.004	Red liquid
SN5	SHA17-051546.005	Green liquid
SN6	SHA17-051546.006	Translucent liquid

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method : (1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
 (2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES(samples 001~005);determination of Lead by AAS(sample 006)..
 (3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
 (4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.

Test Item(s)	Limit	Unit	MDL	001	002	003
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	2	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	004	005	006
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	2	ND	ND	ND



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Notes :

- (1) The maximum permissible limit is quoted from directive 2011/65/EU, Annex II

Remark:

- (1) For sample 002~006, Result shown is of the total weight of wet sample.
 (2) The composite sampling method is based on the client's special request and is a modification from the testing standard..



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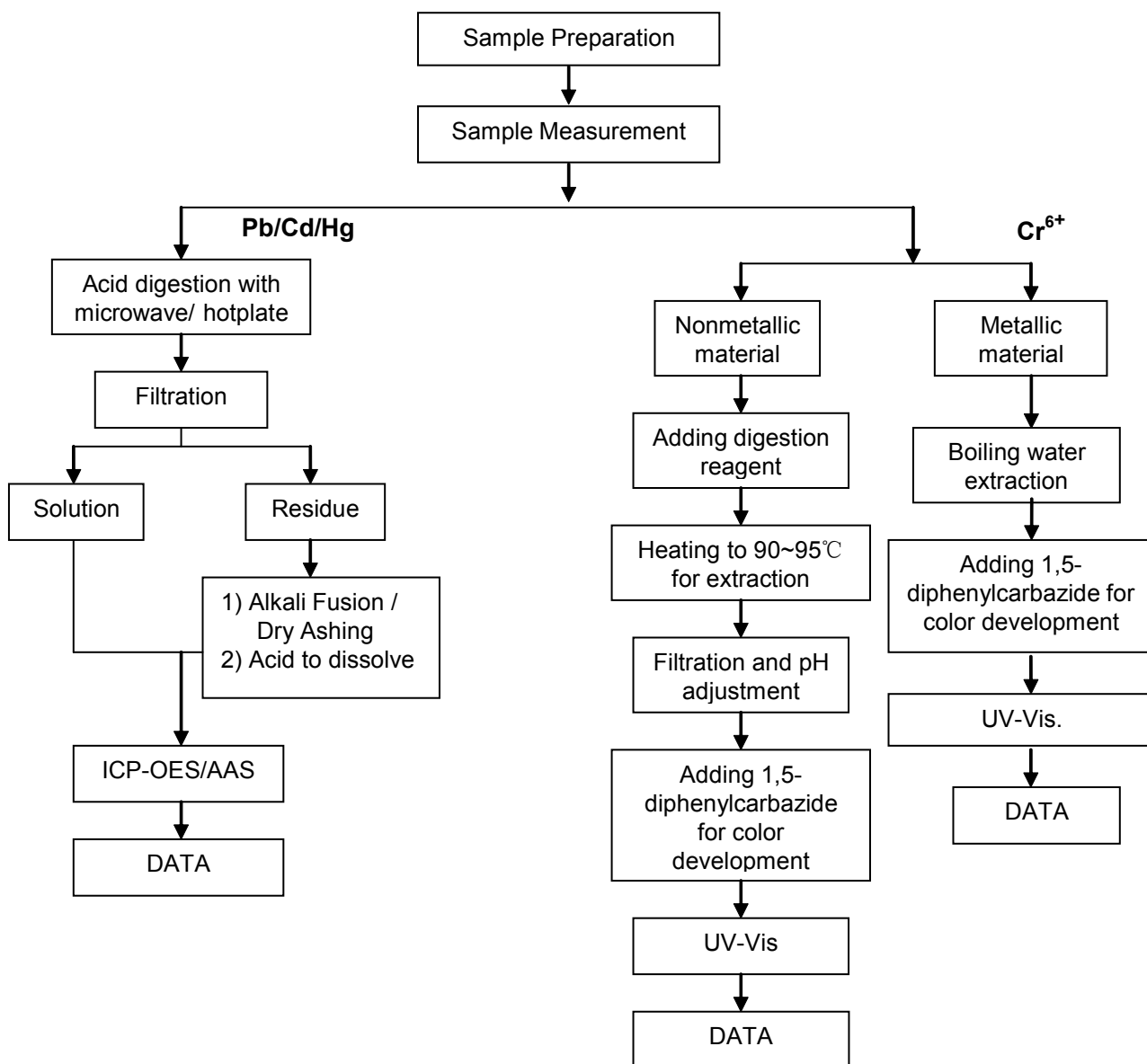
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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Meria Jin/Sielina Song/Sean Li
- 2) Name of the person in charge of testing: Jan Shi/Luna Xu/Shara Wang
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)



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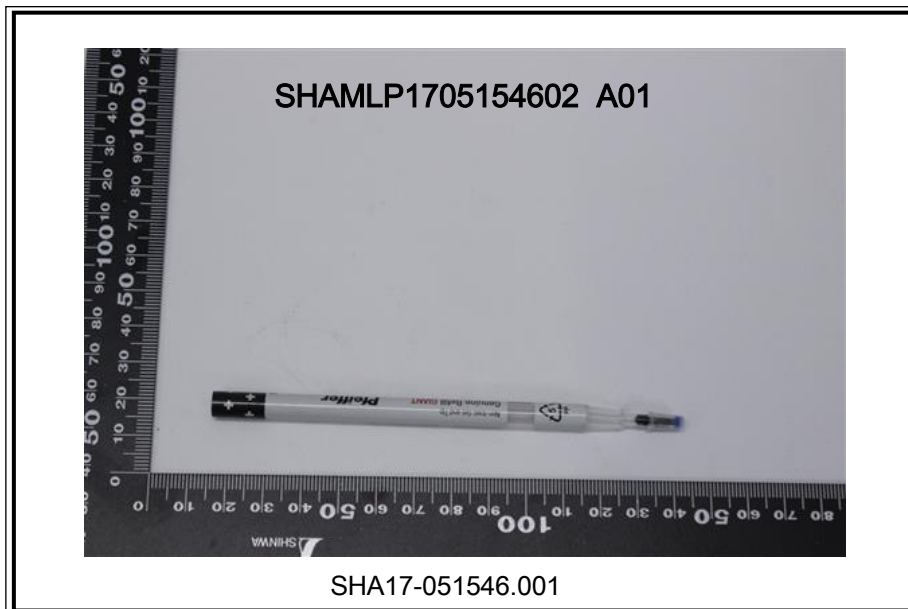
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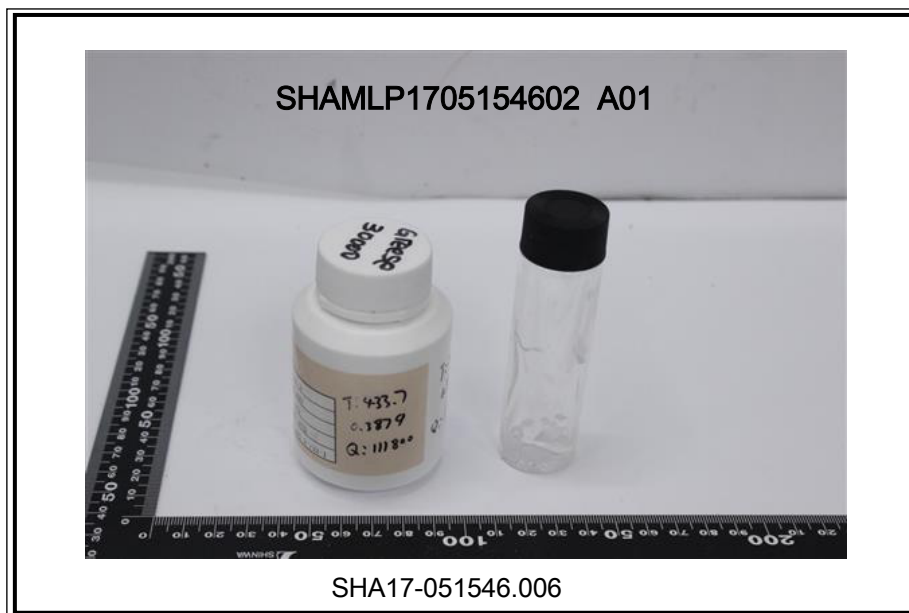
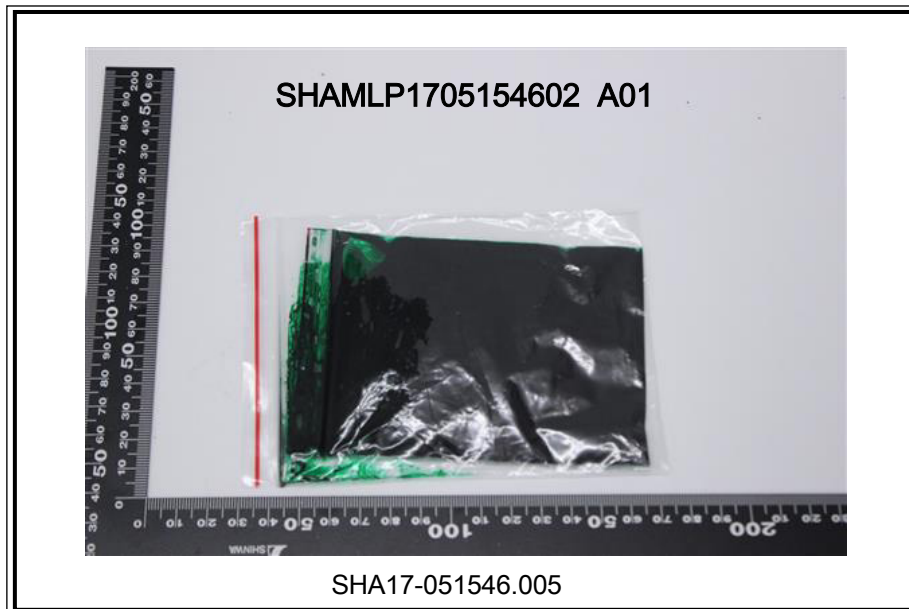
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