

## Test Report

No. XMNML1901705333

Date: 11 Dec 2019

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HOLLYLAND(CHINA) ELECTRONICS TECHNOLOGY CORPORATION LIMITED & HOLLYLAND(XIAMEN) TECHNOLOGY CORPORATION LIMITED

NO.829, FANGSHAN EAST 2ND ROAD, XIANG'AN, XIAMEN, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : See Remark(5)

SGS Job No. : XMIN1911008452PC - XM  
Date of Second Sample Received : No.027 and No.029 were received in 29 Nov 2019  
Date of Sample Received : 22 Nov 2019  
Testing Period : 22 Nov 2019 - 06 Dec 2019  
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).  
Conclusion : Based on the performed tests on selected part of submitted sample(s), the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Xiamen Branch

*Rae chen*

Rae Chen  
Approved Signatory



XMNML1901705333



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SGS-CSTC Standards Technical Services Co., Ltd.  
Xiamen Branch Testing & Inspection Laboratory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	XMN19-017053.024	Silver-white metal wire(said to be"Element")
SN2	XMN19-017053.025	Transparent glass tube(said to be"Glass Tube")
SN3	XMN19-017053.026	Copper-colored metal cap(after removed silvery plating)(said to be"Cap")
SN4	XMN19-017053.027	Silvery plating on metal cap(said to be"The Plating of Cap")
SN5	XMN19-017053.028	Copper-colored metal wire(after removed silvery plating)(said to be"Lead Wire(on Cap)")
SN6	XMN19-017053.029	Silvery plating on metal wire(said to be"The Plating of Lead Wire(on Cap)")
SN7	XMN19-017053.030	Silver-grey metal solder wire(said to be"High Temperature Solder")
SN8	XMN19-017053.033	Silvery metal sheet(said to be"Silver sheet")
SN9	XMN19-017053.055	White ceramic tube(said to be"ceramic tube")
SN10	XMN19-017053.059	White thread(said to be"Glass fiber")
SN11	XMN19-017053.060	Lt-brown sand(said to be"White Sand")
SN12	XMN19-017053.062	Brown particle(said to be"Attapulgite")

Remarks :

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

**RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU**

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit	MDL	025	055	059
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	78	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>025</u>	<u>055</u>	<u>059</u>
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	ND	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>060</u>	<u>062</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND



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Test Item(s)	Limit	Unit	MDL	060	062
Decabromobiphenyl	-	mg/kg	5	ND	ND
Sum of PBDEs	1,000	mg/kg	-	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	ND

Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series  
[https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:1258637,25](https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25)
- (2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

**RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU**

Test Method : With reference to IEC 62321-4:2013+A1:2017 , IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis .

Test Item(s)	Limit	Unit	MDL	024	026	028
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	5	13	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm <sup>2</sup>	0.10	ND	ND	ND



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Test Item(s)	Limit	Unit	MDL	030	033
Cadmium (Cd)	100	mg/kg	2	ND	ND
Lead (Pb)	1,000	mg/kg	2	862599▲	42
Mercury (Hg)	1,000	mg/kg	2	ND	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm <sup>2</sup>	0.10	ND	ND

### Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

IEC 62321 series is equivalent to EN 62321 series

<https://www.cenelec.eu/dyn/www/f?>

p=104:30:1742232870351101:::FSP\_ORG\_ID,FSP\_LANG\_ID:1258637,25

(2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm<sup>2</sup>. The sample coating is considered to contain CrVI

b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm<sup>2</sup>). The coating is considered a non-CrVI based coating

c. The result between 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> is considered to be inconclusive - unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

(3) ▲=According to the declaration from the client, Lead (Pb) in No.030 is exempted by EU RoHS directive 2011/65/EU based on [ANNEX III 7(a)]: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).

### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017 , IEC62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis .

Test Item(s)	Limit	Unit	MDL	027	029
Cadmium (Cd)	100	mg/kg	10	ND	ND
Lead (Pb)	1,000	mg/kg	10	ND	ND
Mercury (Hg)	1,000	mg/kg	10	ND	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm <sup>2</sup>	0.10	ND	ND

### Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

IEC 62321 series is equivalent to EN 62321 series

<https://www.cenelec.eu/dyn/www/f?> p=104:30:1742232870351101:::FSP\_ORG\_ID,

FSP\_LANG\_ID:1258637,25

(2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm<sup>2</sup>. The sample coating is considered to contain CrVI

b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm<sup>2</sup>). The



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coating is considered a non-CrVI based coating  
 c. The result between 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> is considered to be inconclusive - unavoidable coating variations may influence the determination  
 Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

**Antimony (Sb)**

Test Method : SGS In-house method (GZTC CHEM-TOP-004-01, with reference to US EPA Method 3052: 1996), analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>025</u>
Antimony (Sb)	mg/kg	10	ND

Remark:

- (1) The test was subcontracted to SGS Guangzhou chemical lab.
- (2) Results and photos of No.059 in this report refer to No.006 in test report XMNML1901637201;
- (3) Results and photos of No.060 and No.062 in this report refer to No.007 and No.009 in test report XMNML1901637202;
- (4) Results and photos of No.024~No.030, No.033 and No.055 in this report refer to test report XMNML1901705301.



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(5) Material

for: 31NM/32NM>8A. 31S/32S>10A. 30T>10A. 36T>10A. 35NM/36NM>8A. 35S/36S>10A. 41NM/42NM>8A. 41S/42S>12A. 41ST/42ST>12A. 51NM>12A. 52NM>10A. 51MS>15A. 52MS>12A. 51S>15A. 52S>12A. 51NR>10A. 52NR>8A. 51ST>15A. 52ST>12A. 50F>12A. 50F(P) ≥10A. 50T/50T(P) ≥15A. 50CF ≥10A. 50CF(P) ≥8A. 50CT ≥12A. 50CT(P) ≥10A. 5FF ≥8A. 61NM>12A. 62NM ≥10A. 61MS>15A. 62MS>12A. 61S>15A. 62S>12A. 61NR>12A. 62NR ≥10A. 61ST>15A. 62ST>12A. 65NM>20A. 65NM(P) ≥20A. 65TS/65TS(P) >15A. 61T>12A. 61T(P) >10A. 61F>12A. 61F(P) ≥10A. 6FF ≥8A. 5HF>12A. 5HF(P) ≥10A. 5HS>12A. 5HS(P) ≥10A. 6HF>12A. 6HF(P) ≥10A. 6HS>12A. 6HS(P) ≥10A. 6HT/6HT(P) >15A. 5LT. 5/F>12A. 5/F(P) ≥10A. 5/T>12A. 5/T(P) ≥10A. 6/F>12A. 6/F(P) ≥10A. 6/T>12A. 6/T(P) ≥10A RoHS Series.



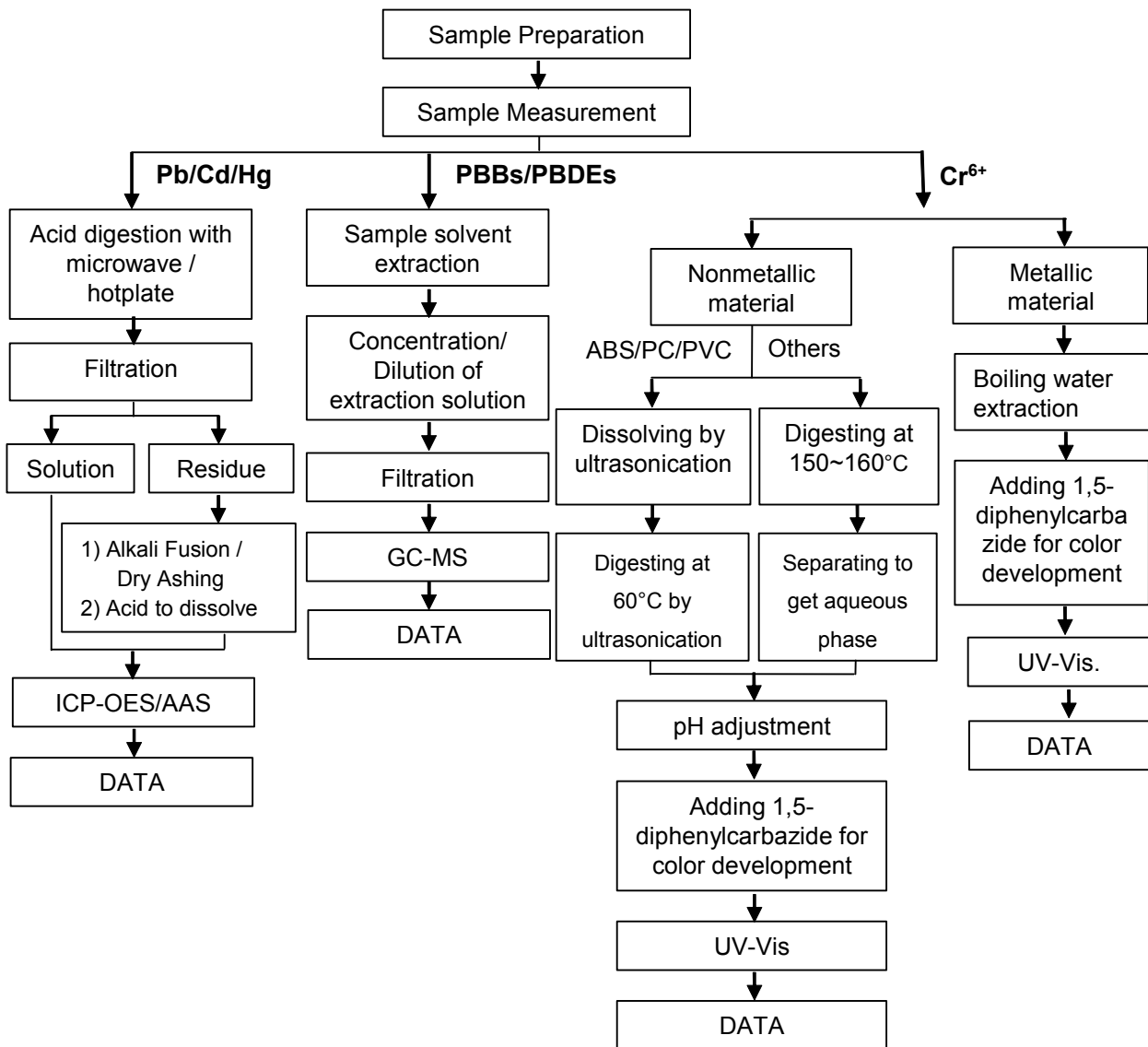
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**Pb/Cd/Hg/Cr<sup>6+</sup>/PBBs/PBDEs Testing Flow Chart**

These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).



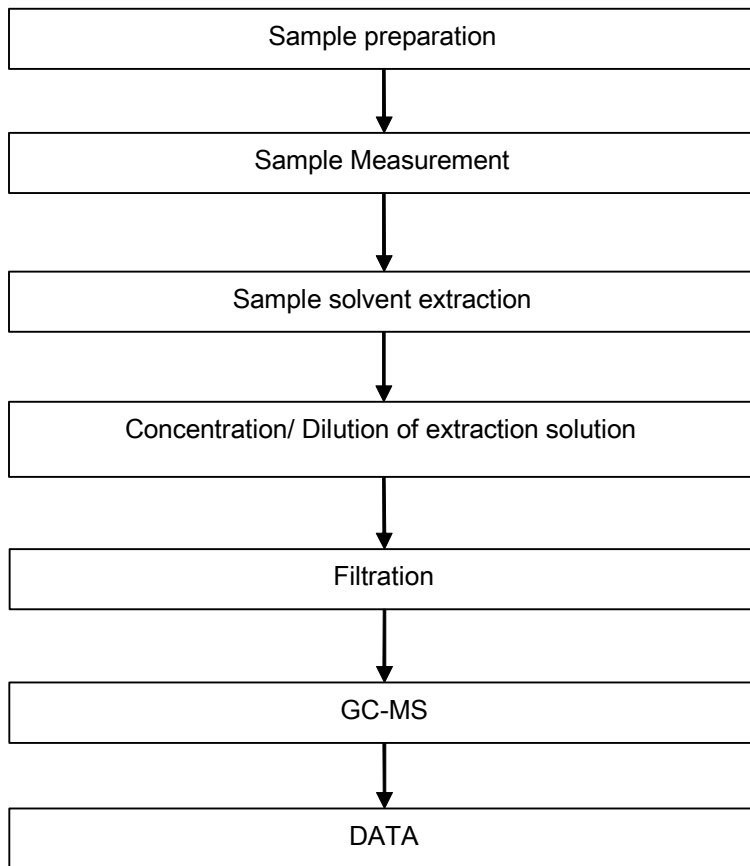
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Phthalates Testing Flow Chart

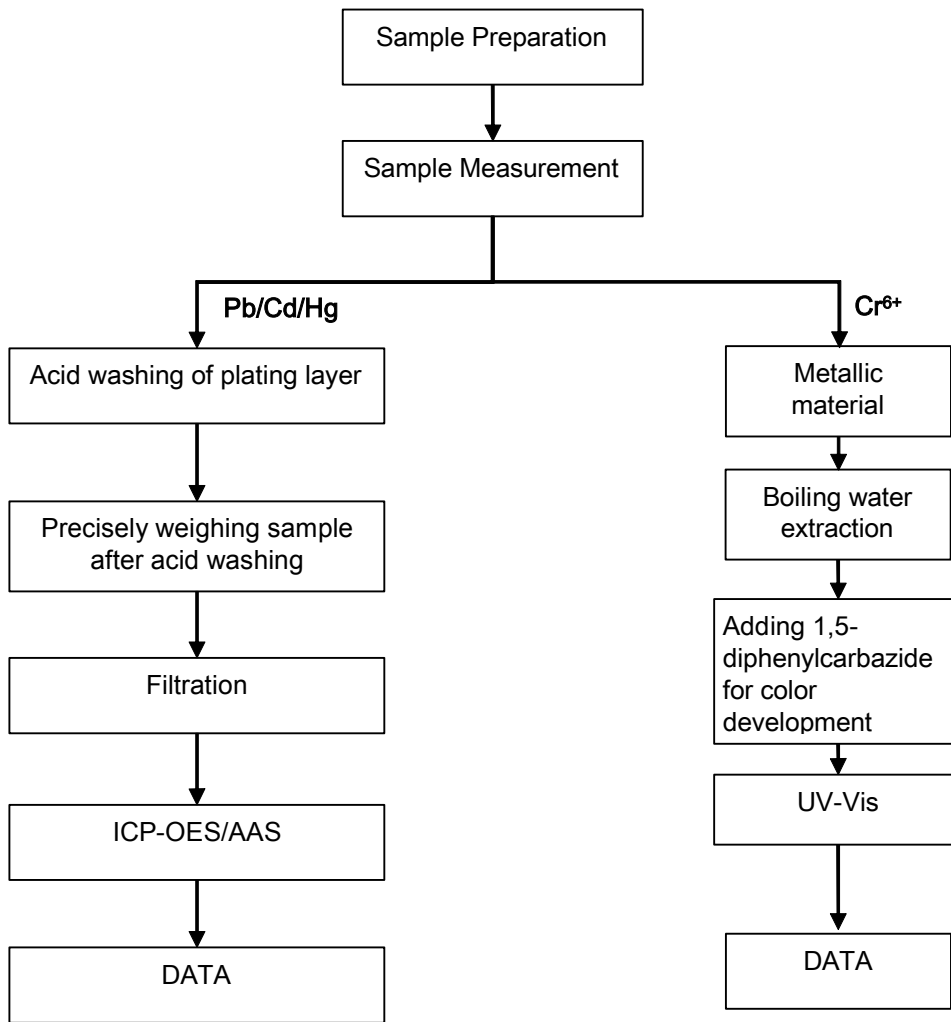


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Plating Pb/Cd/Hg/Cr<sup>6+</sup> Testing Flow Chart



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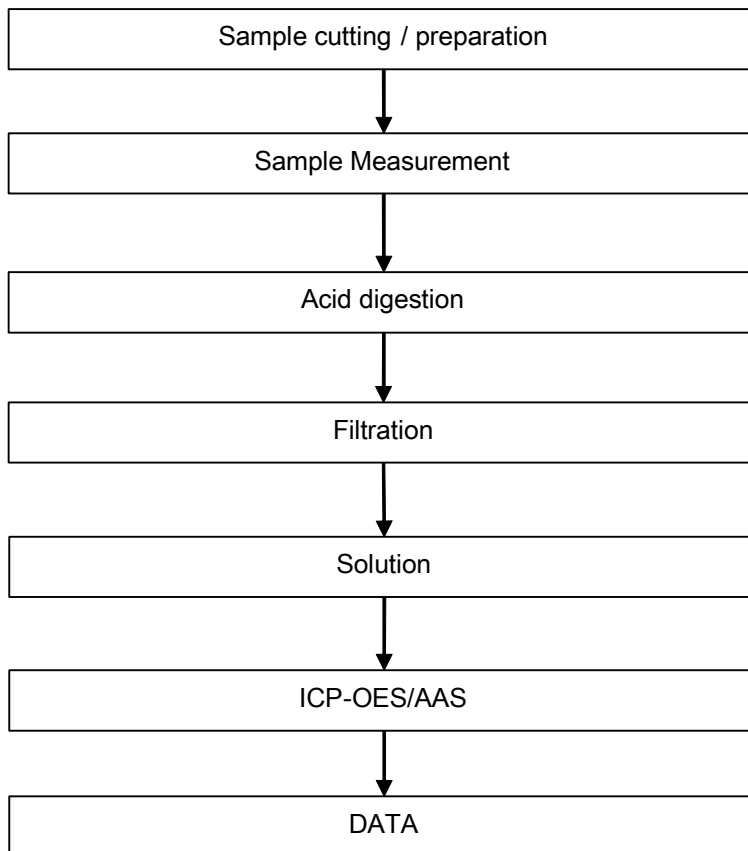
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Elementary Testing Flow Chart

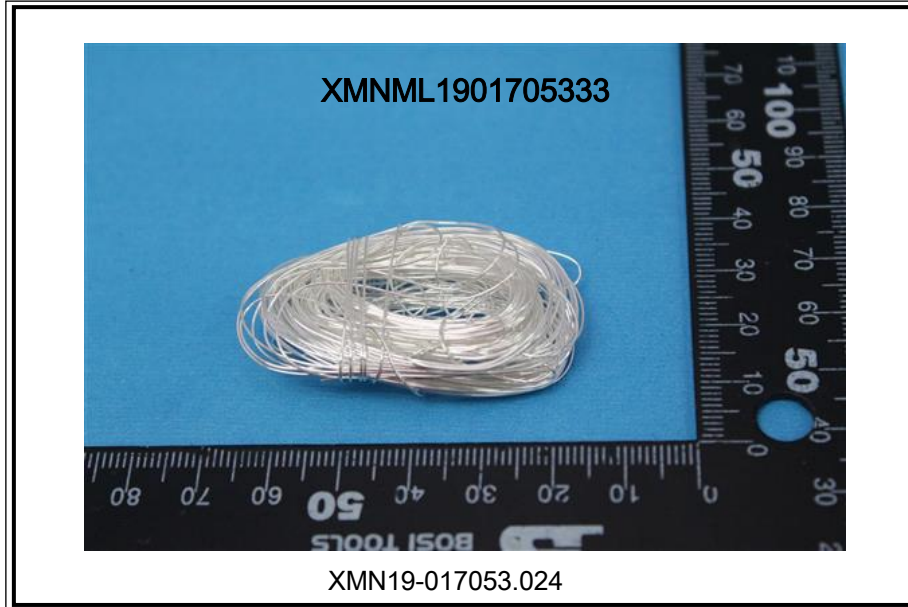
These samples were dissolved totally by pre -conditioning method according to below flow chart.



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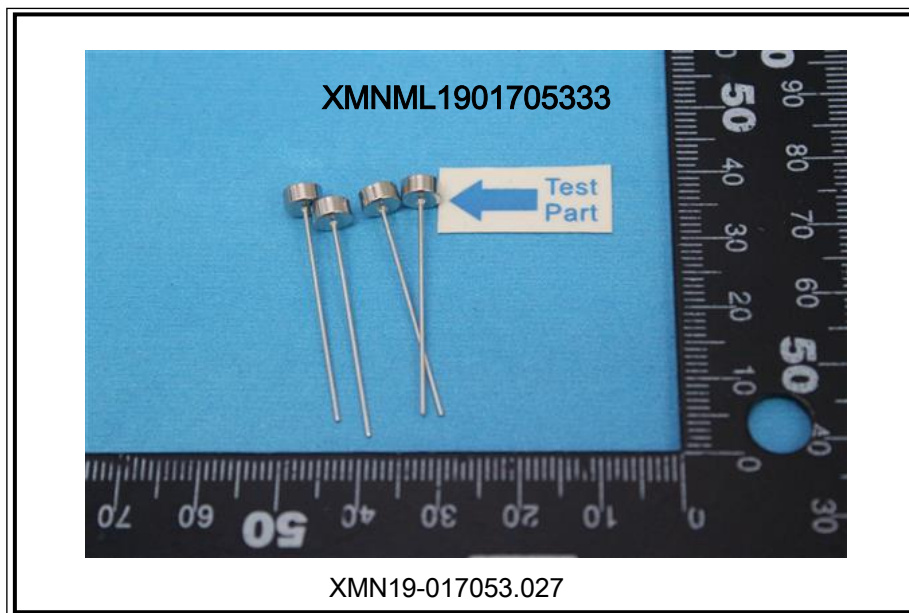
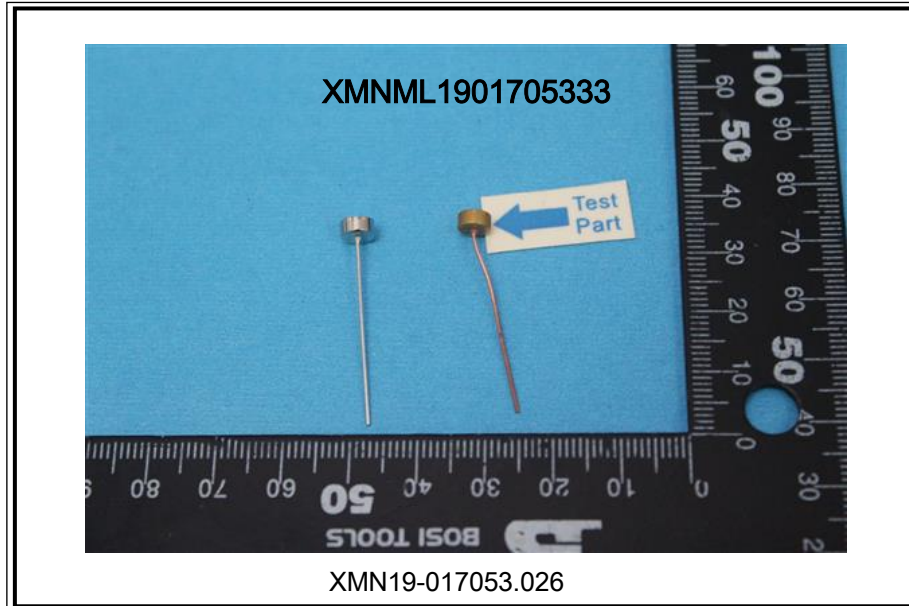
Sample photo:



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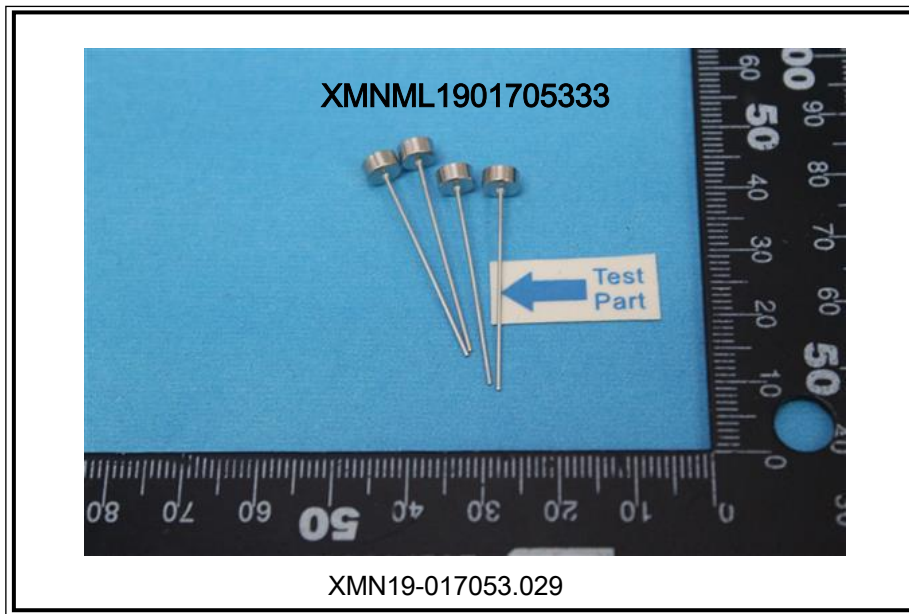
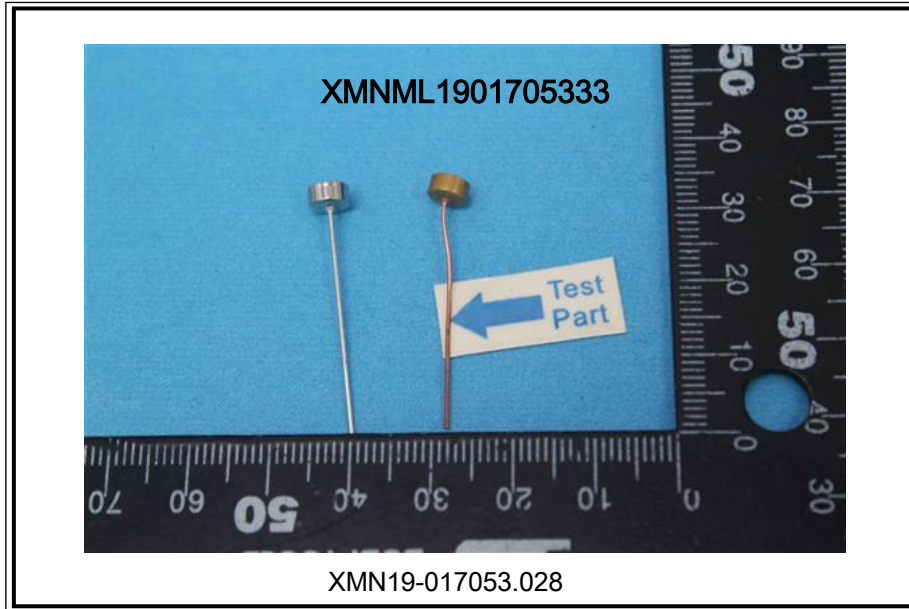


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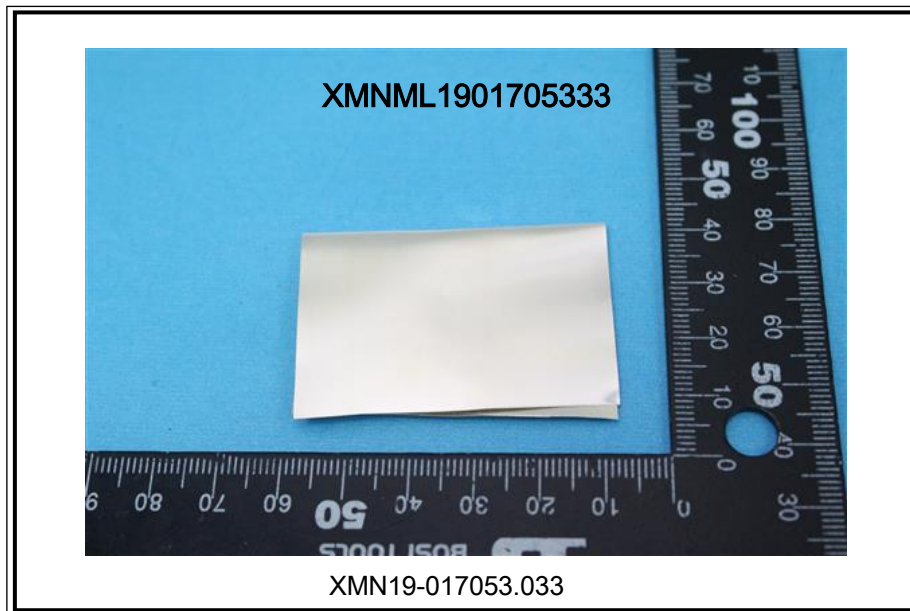




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