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关注谱尼测试



Pony Testing International Group

### Test Report

NO.: MNCQ6FCH02096704

Date: Jul 15, 2019

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Applicant: HARMONY ELECTRONICS(SHEN ZHEN)  
 Address: JU YUAN INDUSTRIAL PARK, QIAO TANG ROAD, TANG WEI  
 COMMUNITY,FUYONG, BAOAN DISTRICT, SHEN ZHEN  
 CITY, PEOPLE'S REPUBLIC OF CHINA.

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Name: QUARTZ CRYSTAL RESONATORS  
 Sample Model: H(D)SO211S&221S&H(D)SO321S(K)&H(D)SO323S(K)(J)(SD)  
 &H(D)SO531S&751S(J) &HSV531S&HSV753S  
 Manufacturer: HARMONY ELECTRONICS CORP.  
 Sample Description: Iron+Cobalt+Nickel+Tungsten+Gold  
 Test Component: Overall test

Sample Received Date: Jul 05, 2019  
 Testing Period: Jul 05, 2019, TO Jul 15, 2019

Test Items: (1) Pb, Cd, Hg, Cr<sup>6+</sup>, PBBs, PBDEs, Phthalates  
 (2) F, Cl, Br, I  
 (3) Sb, Be  
 (4) PFOS, PFOA  
 (5) DINP

Reference Method: (1) RoHS Directive 2011/65/EU & (EU)2015/863 Annex II  
 a.IEC 62321-5 Edition 1.0:2013 method, Lead Analysis is performed by AAS  
 b.IEC 62321-5 Edition 1.0:2013 method, Cadmium Analysis is performed by AAS  
 c.IEC 62321-4:2013+AMD1:2017 CSV method,  
 Mercury Analysis is performed by ICP-OES  
 d.IEC 62321-7-2 Edition 1.0:2017 method,  
 Hexavalent Chromium Analysis is performed by UV-Vis  
 e.IEC 62321-6 Edition 1.0:2015 method,  
 PBBs and PBDEs Analysis is performed by GC-MS  
 f. IEC 62321-8 Edition 1.0:2017 method,  
 Phthalates Analysis is performed by GC-MS  
 (2) EN 14582:2016 method, Analysis is performed by IC  
 (3) EPA 6010D:2018&EPA 3052:1996 method,  
 Analysis is performed by ICP-OES  
 (4) EPA3550C:2007&EPA8321B:2007 method, Analysis is performed by LC-MS  
 (5) IEC 62321-8 Edition 1.0:2017 method,  
 DINP Analysis is performed by GC-MS

Testing Results: Please refer to next page(s)

Approved by:

*Maozu oing*



微信扫一扫，使用小程序



小程序扫一扫，在线验证

Code: gnsymjx



Pony Testing International Group, Shenzhen Co., Ltd.  
 Address: 1F., Building 6, Zhongxing Industry City, Chuangye Road,  
 Nanshan District, Shenzhen, Guangdong, China

Beijing Lab: (010)83055000  
 Shanghai Lab: (021)64851999  
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Test Result (Unit: mg/kg)

Test Item	MDL	Test Result	RoHS Limit
Lead (Pb)	1	N.D.	1000
Cadmium (Cd)	1	N.D.	100
Mercury (Hg)	1	N.D.	1000
Hexavalent Chromium (Cr <sup>6+</sup> )	8	N.D.	1000
Sum of PBBs	—	N.D.	1000
Bromobiphenyl	5	N.D.	—
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.	—
Nonabromobiphenyl	5	N.D.	—
Decabromobiphenyl	5	N.D.	—
Sum of PBDEs	—	N.D.	1000
Bromodiphenyl ether	5	N.D.	—
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.	—



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Test Results (Unit: mg/kg)

Test Item	MDL	Test Result	RoHS Limit
DEHP	50	N.D.	1000
DBP	50	N.D.	1000
BBP	50	N.D.	1000
DIBP	50	N.D.	1000

Test Results (Unit: mg/kg)

Test Item	MDL	Test Result
F	50	N.D.
Cl	50	N.D.
Br	50	N.D.
I	50	N.D.

Test Results (Unit: mg/kg)

Test Item	MDL	Test Result
Sb	1	37.8
Be	1	N.D.

Test Results (Unit: mg/kg)

Test Item	MDL	Test Result
PFOS	2	N.D.
PFOA	2	N.D.

Test Results (Unit: mg/kg)

Test Item	CAS number	MDL	Test Result
Diisononyl phthalate (DINP)	28553-12-0	50	N.D.

- Note:
- (1) mg/kg = ppm
  - (2) “—” = Does not stipulate
  - (3) N.D. = Not Detected (<MDL)
  - (4) MDL = Method Detection Limit
  - (5) The most allowable limit value reference to RoHS Directive 2011/65/EU & (EU)2015/863 Annex II

**PONY** LTD. PONY TESTING GROUP  
 谱尼测试集团深圳有限公司  
 Pony Testing International Group  
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 Nanshan District, Shenzhen, Guangdong, China

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Sample No. & Photo:



Pony authenticate the photo on original report only



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# Test Report

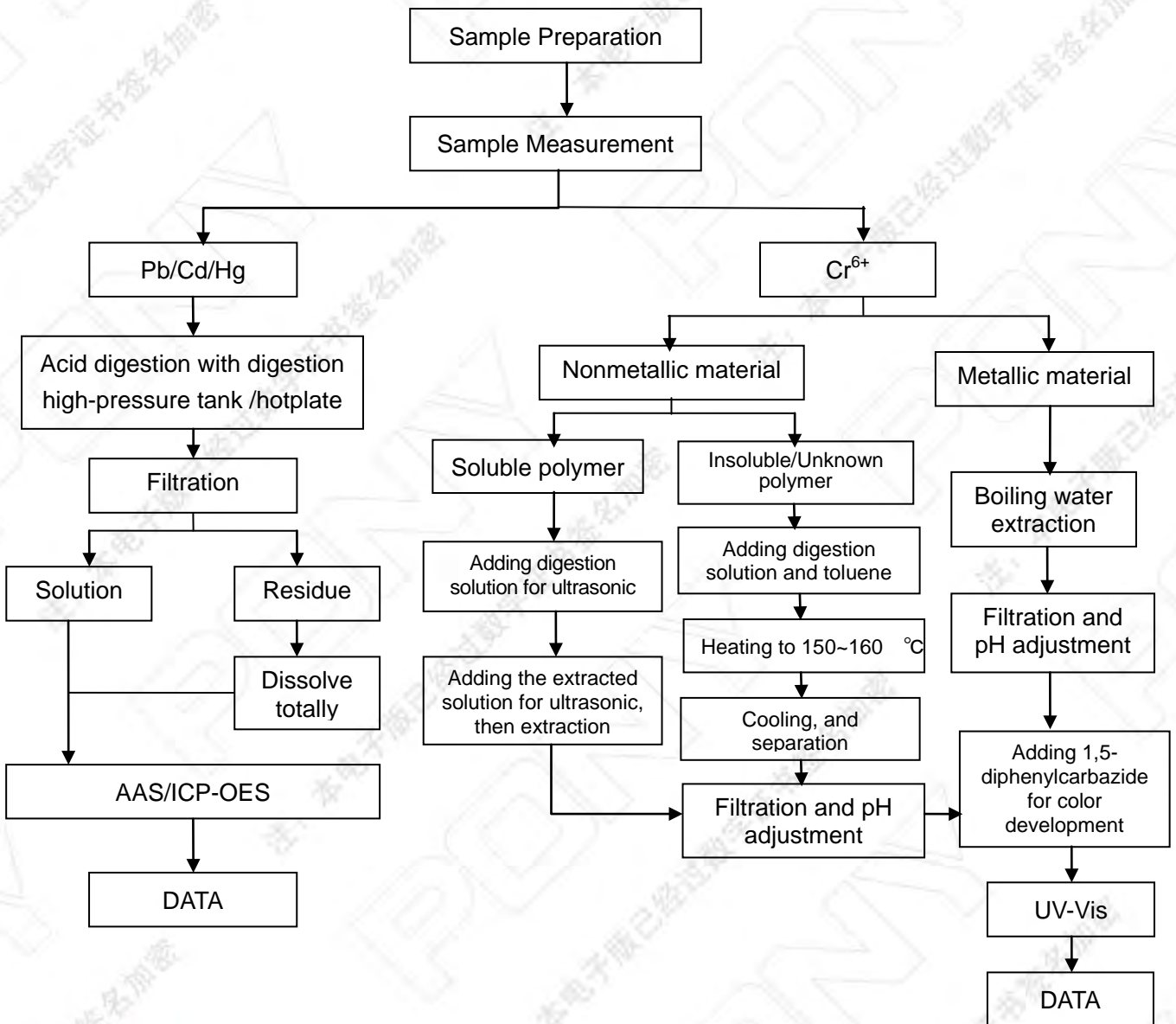
NO.: MNCQ6FCH02096704

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## Measurement Flow-chart

Tested by: Zhou Weiting      Checked by: Peng Pingping      Person in charge of the lab: Mao Zuqing  
These Samples Were Dissolved Totally By Pre-conditioning Method According To Below Flow Chart.  
(Cr<sup>6+</sup> Test Method Excluded)



Beijing Lab: (010)83055000      Shanghai Lab: (021)64851999      Changchun Lab: (0431)85150908      Shijiazhuang Lab: (0311)85376660      Wuhan Lab: (027)83997127  
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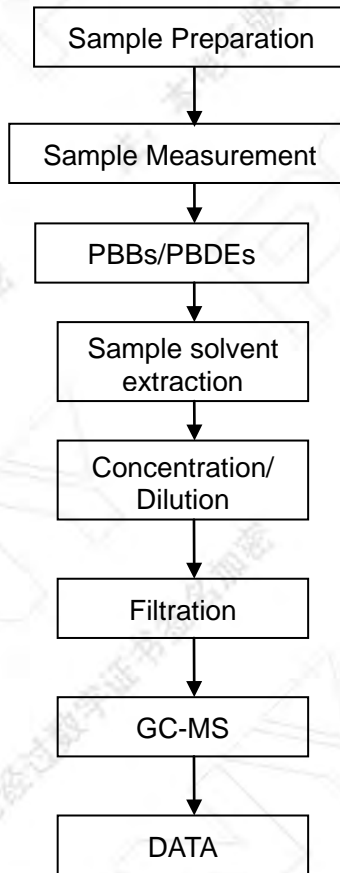
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## Measurement Flow-chart

Tested by: Wang Yaowei

Checked by: Peng Pingping

Person in charge of the lab: Mao Zuqing



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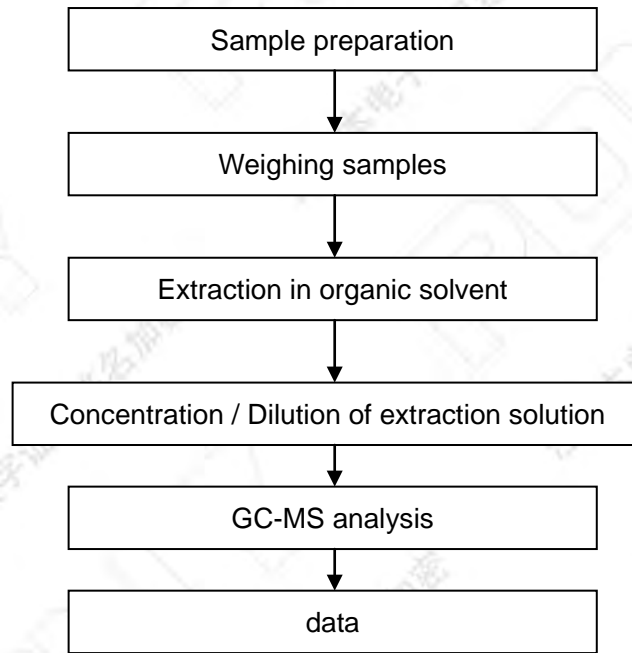
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Phthalates Measurement Flow-chart

Tested by: Jiang Yuejiao

Checked by: Peng Pingping

Person in charge of the lab by: Mao Zuqing



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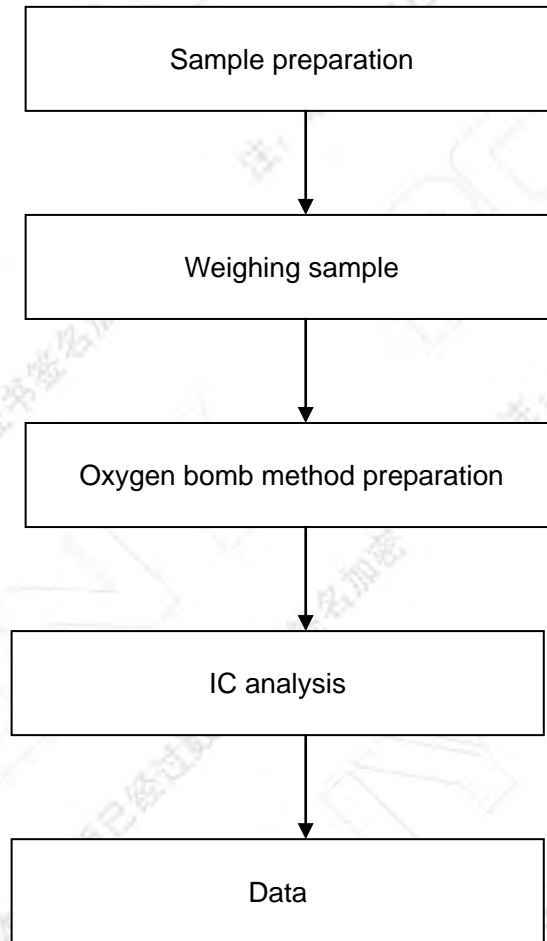
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Halogen measurement flow-chart

Tested by: Guo Xiaoying

Checked by: Peng Pingping

Person in charge of the lab by: Mao Zuqing



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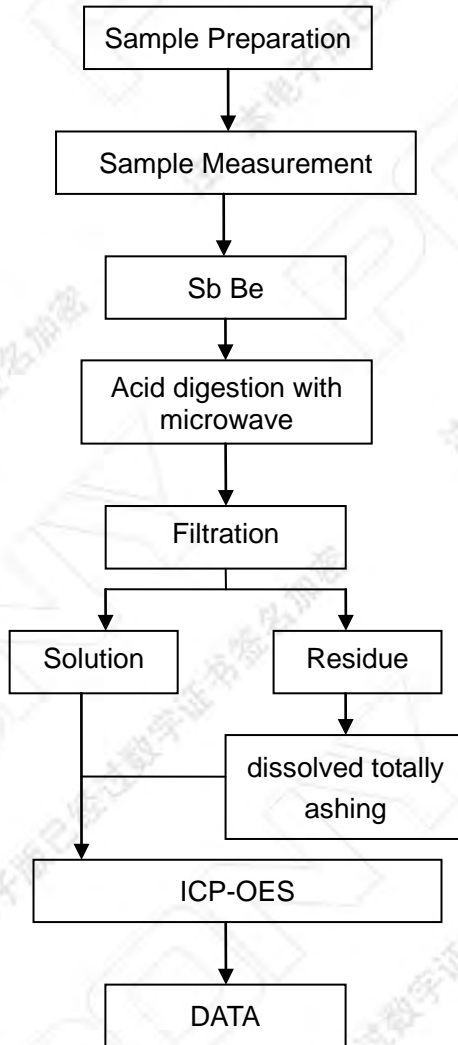
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Sb Be Measurement Flow-chart

Tested by: Mei Wenjun    Checked by: Peng Pingping    Person in charge of the lab by: Mao Zuqing  
These Samples Were Dissolved Totally By Pre-conditioning Method According To Below Flow Chart.



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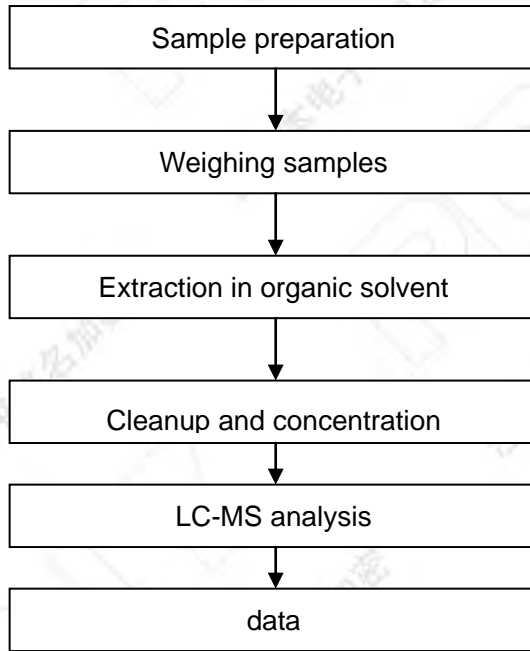
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PFOS,PFOA Measurement Flow-chart

Tested by: Huang Zhenjin

Checked by: Peng Pingping

Person in charge of the lab by: Mao Zuqing



\*\*\*End of Report\*\*\*



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