

Test Report

No. CANEC1705006406

Date: 06 Apr 2017

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HOPE MICROELECTRONICS CO.,LTD

2/F,BUILDING3,PINGSHAN PRIVATE ENTERPRISE SCIENCE AND TECHNOLOGY PARK,XILI
TOWN,NANSHAN DISTRICT,SHENZHEN,CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Wireless RF Module

SGS Job No. : CP17-015712 - SZ

Model No. : RFM3000H-915S2

Client Ref. Info. : RFM300,RFM01,RFM02,RFM12,RFM12B,RFM12BP,RFM22B,
RFM23B,RFM24,RFM26,RFM31B,RFM31BJ,RFM42B,RFM43B,
RFM43BJ,RFM50,RFM62,RFM63,RFM64,RFM65,RFM66,RFM67,
RFM68,RFM69,RFM73,RFM75,RFM83C,RFM83A,RFM83CL,RFM92,
RFM93,RFM95,RFM96,RFM97,RFM98,HM-T,HM-R,HM-TRP,HM-TRLR,
RFM110,RFM210,RFM210LC,RFM210LS,RFM113,RFM213,RFM217,
RFM217LA,RFM217B,RFM210LB,RFM210LA,HM-LWNL,HM-LWNLH,
RFM119,RFM219.

Date of Sample Received : 28 Mar 2017

Testing Period : 28 Mar 2017 - 05 Apr 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 Co., Ltd. Guangzhou Branch

Violet

Violet,Shi
Approved Signatory



Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN17-050064.004	"Wireless RF Module"(mixed)

Remarks :

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

Elementary Analysis & Flame Retardants & Phthalates

- 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.
 - (5)With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.
 - (6)With reference to IEC 62321-8:2013 (111/321/CD) , determination of phthalates by GC-MS.

Test Item(s)	Unit	MDL	004
Cadmium (Cd)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	12
Mercury (Hg)	mg/kg	2	ND
Hexavalent Chromium (CrVI)	mg/kg	2	ND
Sum of PBBs	mg/kg	-	ND
Monobromobiphenyl	mg/kg	5	ND
Dibromobiphenyl	mg/kg	5	ND
Tribromobiphenyl	mg/kg	5	ND
Tetrabromobiphenyl	mg/kg	5	ND
Pentabromobiphenyl	mg/kg	5	ND
Hexabromobiphenyl	mg/kg	5	ND
Heptabromobiphenyl	mg/kg	5	ND
Octabromobiphenyl	mg/kg	5	ND
Nonabromobiphenyl	mg/kg	5	ND
Decabromobiphenyl	mg/kg	5	ND
Sum of PBDEs	mg/kg	-	ND



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<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>
Monobromodiphenyl ether	mg/kg	5	ND
Dibromodiphenyl ether	mg/kg	5	ND
Tribromodiphenyl ether	mg/kg	5	ND
Tetrabromodiphenyl ether	mg/kg	5	ND
Pentabromodiphenyl ether	mg/kg	5	ND
Hexabromodiphenyl ether	mg/kg	5	ND
Heptabromodiphenyl ether	mg/kg	5	ND
Octabromodiphenyl ether	mg/kg	5	ND
Nonabromodiphenyl ether	mg/kg	5	ND
Decabromodiphenyl ether	mg/kg	5	ND
Dibutyl phthalate (DBP)	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	mg/kg	50	ND
Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	mg/kg	50	ND

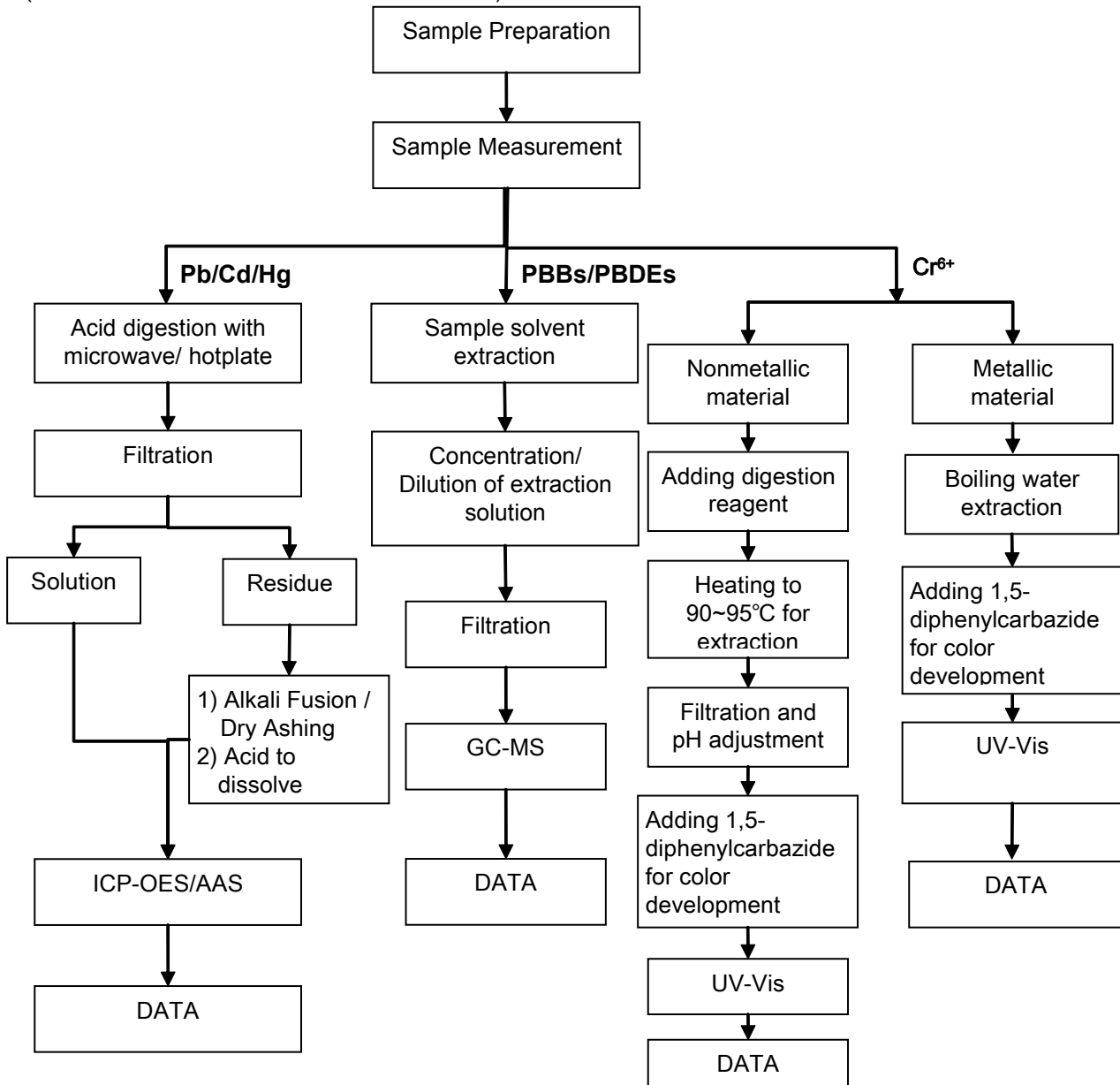
Remark: The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference.



ATTACHMENTS

Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

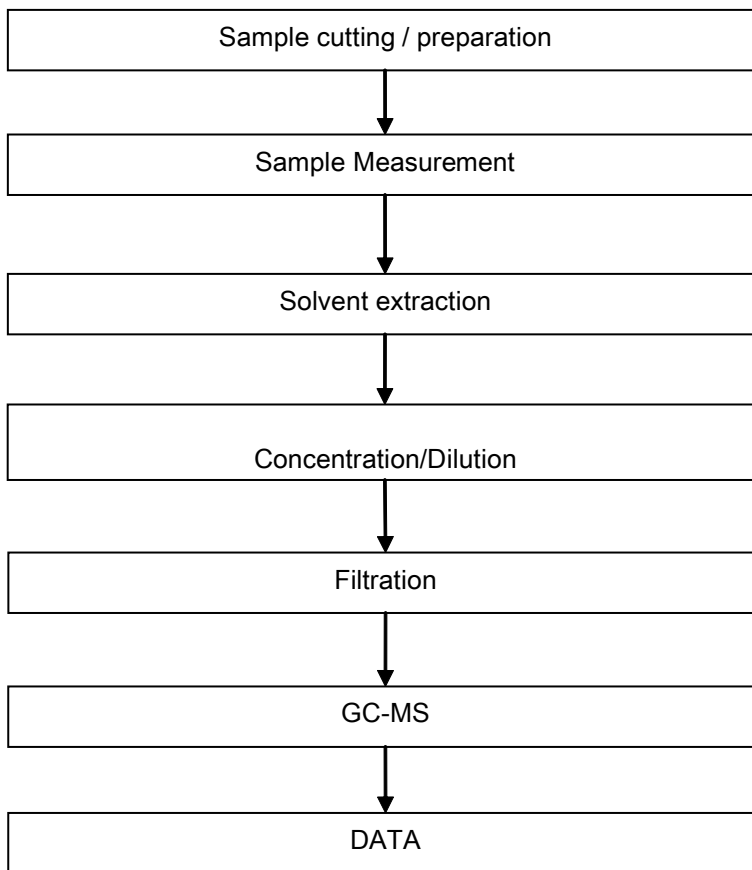
- 1) Name of the person who made testing: Edith Zhang / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Qiong Liu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).



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Phthalates Testing Flow Chart

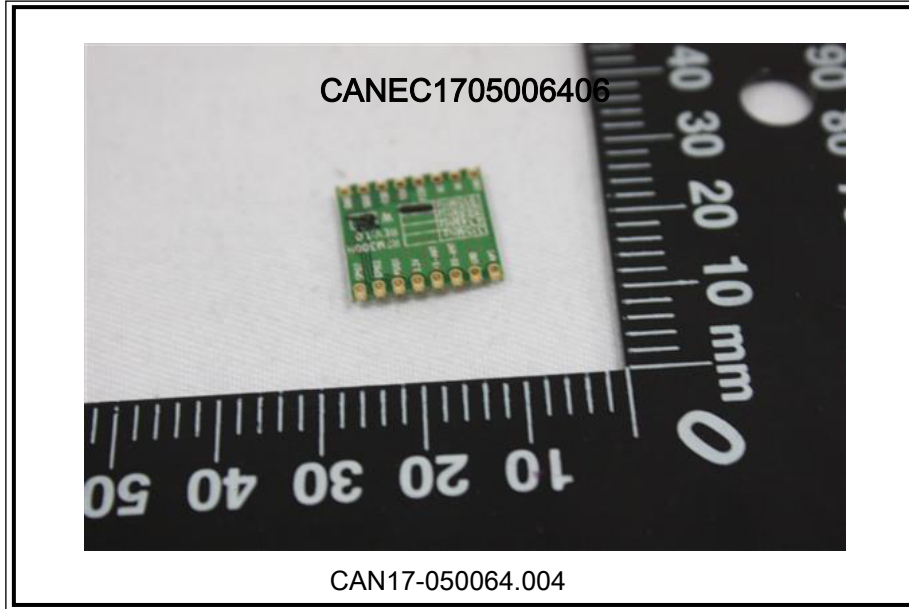
- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Qiong Liu



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Sample photo:



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*** End of Report ***