

Test Report

No. CANEC1700000711

Date: 12 Jan 2017

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3F ELECTRONICS INDUSTRY CORP.,LTD.

NO.5, ZHENXING ROAD, LIYUHE INDUSTRY PARK, LOUCUN VILLAGE, GONGMING STREET,
GUANGMING NEW DISTRICT, SHENZHEN , GUANGDONG , CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : PVC wire and cable

SGS Job No. : CP17-000002 - SZ
Model No. : AVSS 0.3mm² Blue
Client Ref. Info. : Please see Remark
Date of Sample Received : 03 Jan 2017
Testing Period : 03 Jan 2017 - 06 Jan 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).
Conclusion : Based on the performed tests on selected part of submitted sample(s), the results of Lead, Mercury, Cadmium, 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. Guangzhou Branch

Violet

Violet,Shi
Approved Signatory



Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN17-000007.006	Blue plastic jacket

Remarks :

- (1) 1 mg/kg = 1 ppm = 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 :
- (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)	Limit	Unit	MDL	006
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	3
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	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	1,000	mg/kg	-	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</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)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND

Notes :

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



Remark:

UL1007、1010、1013、1015、1017、1020、1021、1022、1023、1024、1026、
 10269、1027、1028、1040、1041、1043、1054、1055、1056、1061、1095、
 1207、1211、1220、1230、1233、1234、1235、1236、1237、1238、1239、
 1265、1266、1275、1283、1284、1308、1314、1316、1452、1569、1571、
 1589、1617、1618、1672、1429、1430、1431、3454、3558、3314、3315、
 3453、3611、3443、1764、10024、10053、10070、10076、10198、2038、
 2095、2096、2101、2102、2103、2127、2129、2265、2343、20478、2344、
 2345、2346、2384、2385、2386、2387、2388、2448、2463、20295、2464、
 2468、2490、2493、2501、2502、2516、2517、2532、2550、20294、2560、
 2569、2570、2571、2574、2576、2584、2586、2587、2589、20293、2598、
 2614、2626、2630、2631、2637、2651、2653、2654、2655、2656、2660、
 2661、2662、2668、2679、2704、2709、2722、2726、QFR、2733、BVR、
 2754、2919、2990、20276、20480、20482、21014、10097、3463、3482、
 QB-A、QB-B、AVR、60227IEC01(BV)、60227IEC02(RV)、60227IEC05(BV)、
 60227IEC06(RV)、60227IEC08(RV-90)、60227IEC52(RVV)、AVR、
 60227IEC53(RVV)、VDE WIR E、HDT、FLRY、STT、GPT、TWP、FLRYW、
 FLRX、FLR9Y、FLRW、SGT、AV、EB、HEB、HDEB、AVS、CAVS、CAV、
 AVSSH、AVSX、AVXS、AVX、AVFX、EBX、HEBX、CAVUS、AVSS、AVF、
 QVR、GB.AV.300/300V、GB.RVS.300/300V、TVSSX、MTW、MTW/TEW 1015
 MIL-W-76、16878/1C、16878/2C、16878/3C、16878/17B、H05V-K、H07V-
 K, and PVC TUBE

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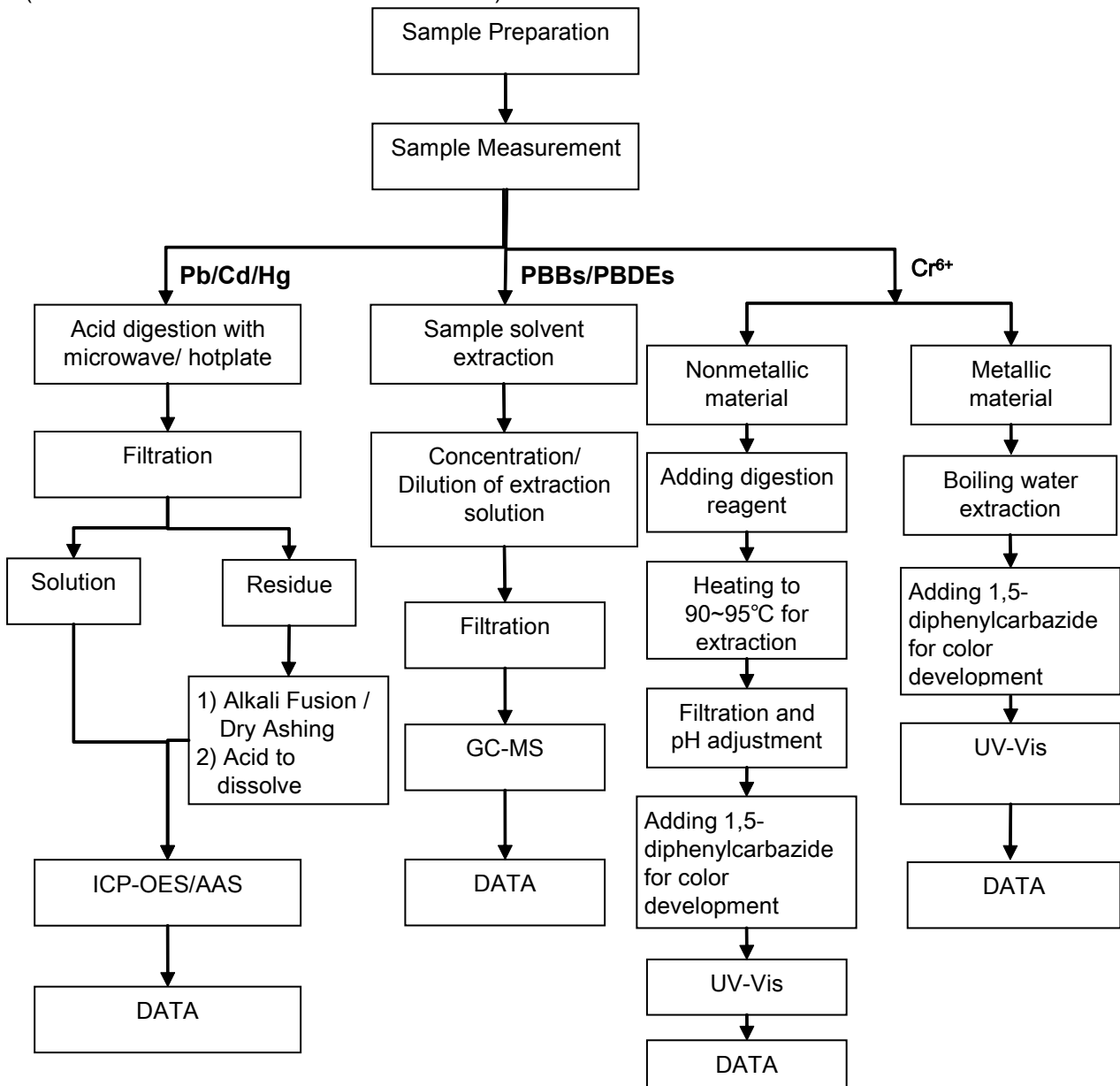
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ATTACHMENTS

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

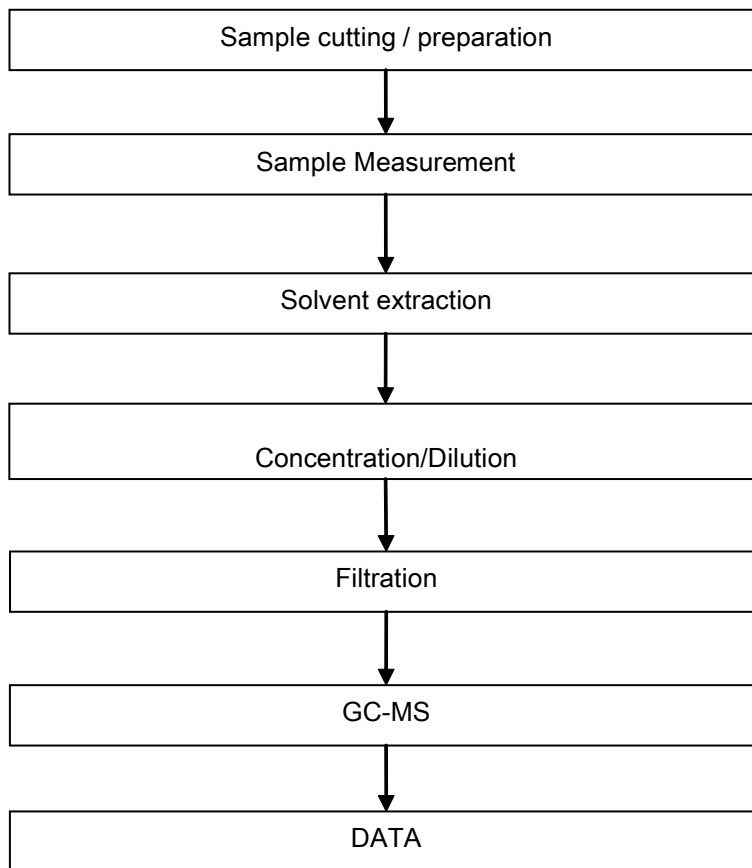
- 1) Name of the person who made testing: Edith Zhang / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Qiong Liu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).



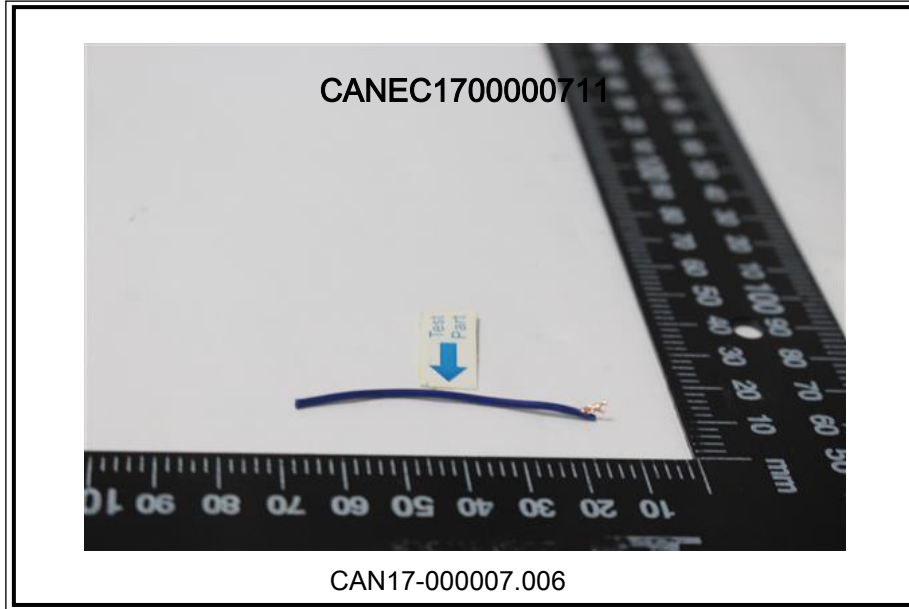
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Phthalates Testing Flow Chart

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



Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***