

## Test Report

No.: CANEC1512497209

Date: 05 Aug 2015

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CAMBRIDGE ELECTRONICS LTD.

HUANG YONG NO.3 INDUSTRIAL DISTRICT,ZHONG TANG TOWN,DONG GUAN CITY,GUANG DONG CHINA

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

SGS Job No. : CP15-041330 - GZ  
Model No. : KBU  
Client Reference Information : ABS、MBS MBM、MBF、DB、RS、RB、KBL、KBU、GBJ、KBJ、BR、KBPC、WOL、WOG、GBU、GBPC、GBP、KBP、GBL D2KB、D3KB、D4KB、D\*UB  
Date of Sample Received : 20 Jun 2015  
Testing Period : 20 Jul 2015 – 24 Jul 2015

Test Requested A: In accordance with the RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

B: To determine Polynuclear Aromatic Hydrocarbons (PAHs).

C: To determine Tetrabromobisphenol-A (TBBP-A) content in the submitted sample

Test Method : A

- (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 EN 14372:2004, determination of phthalates by GC-MS.

B: With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.

C: With reference to US EPA Method 3540C:1996, analysis was performed by GC-MS&HPLC-MS.

Test Results : Please refer to next page.

Conclusion

A: 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.



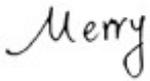
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Guangzhou Branch, Chemical Laboratory

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



Merry Lv  
Approved Signatory



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Test results by chemical method (Unit: mg/kg)

No	Specimen Name	Specimen Description & Photo	Report No.	Test Item & Results	MDL	Limit	
1	Silicone rubber	<p>White liquid</p> 	CANEC1512 497201	<b>Cd</b>	N.D.	2	100
				<b>Pb</b>	N.D.	2	1000
				<b>Hg</b>	N.D.	2	1000
				<b>Cr(VI)</b>	N.D.	2	1000
				<b>PBBs</b>	N.D.	5/each	1000
				<b>PBDEs</b>	N.D.	5/each	1000
				<b>DBP</b>	N.D.	30	1000
				<b>BBP</b>	N.D.	30	1000
				<b>DEHP</b>	N.D.	30	1000
				<b>DIBP</b>	N.D.	30	1000
				Naphthalene (NAP)	N.D.	0.1	-
				Acenaphthylene (ANY)	N.D.	0.1	-
				Acenaphthene (ANA)	N.D.	0.1	-
				Fluorene (FLU)	N.D.	0.1	-
				Phenanthrene (PHE)	N.D.	0.1	-
				Anthracene (ANT)	N.D.	0.1	-
				Fluoranthene (FLT)	N.D.	0.1	-
				Pyrene (PYR)	N.D.	0.1	-
				Benzo(a)anthracene (BaA)	N.D.	0.1	-
				Chrysene (CHR)	N.D.	0.1	-
				Benzo(b)fluoranthene (BbF)	N.D.	0.1	-
				Benzo(j)fluoranthene (BjF)	N.D.	0.1	-
				Benzo(k)fluoranthene (BkF)	N.D.	0.1	-
Benzo(a)pyrene (BaP)	N.D.	0.1	-				
Benzo(e)pyrene (BeP)	N.D.	0.1	-				
Indeno(1-,2,3-c,d)pyrene (IPY)	N.D.	0.1	-				
Dibenzo(a,h)anthracene (DBA)	N.D.	0.1	-				
Benzo(g,h,i)perylene (BPE)	N.D.	0.1	-				
Sum of 7 PAHS Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	N.D.	-	-				
<b>Sum of 18 PAHS</b>	N.D.	-	-				



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No	Specimen Name	Specimen Description & Photo	Report No.	Test Item & Results	MDL	Limit	
2	Dice	Silver-grey grains 	CANEC1512 497201	<b>Cd</b>	N.D.	2	100
				<b>Pb</b>	362	2	1000
				<b>Hg</b>	N.D.	2	1000
				<b>Cr(VI)</b>	N.D.	2	1000
				<b>PBBs</b>	N.D.	5/each	1000
				<b>PBDEs</b>	N.D.	5/each	1000
				<b>DBP</b>	N.D.	30	1000
				<b>BBP</b>	N.D.	30	1000
				<b>DEHP</b>	N.D.	30	1000
				<b>DIBP</b>	N.D.	30	1000



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No	Specimen Name	Specimen Description & Photo	Report No.	Test Item & Results		MDL	Limit
3	Ink	Grey paste 	CANEC15 12497201	<b>Cd</b>	N.D.	2	100
				<b>Pb</b>	N.D.	2	1000
				<b>Hg</b>	N.D.	2	1000
				<b>Cr(VI)</b>	N.D.	2	1000
				<b>PBBs</b>	N.D.	5/each	1000
				<b>PBDEs</b>	N.D.	5/each	1000
				<b>DBP</b>	N.D.	30	1000
				<b>BBP</b>	N.D.	30	1000
				<b>DEHP</b>	N.D.	30	1000
				<b>DIBP</b>	N.D.	30	1000
				Naphthalene (NAP)	12.4	0.1	-
				Acenaphthylene (ANY)	N.D.	0.1	-
				Acenaphthene (ANA)	N.D.	0.1	-
				Fluorene (FLU)	20.4	0.1	-
				Phenanthrene (PHE)	96.7	0.1	-
				Anthracene (ANT)	N.D.	0.1	-
				Fluoranthene (FLT)	0.2	0.1	-
				Pyrene (PYR)	N.D.	0.1	-
				Benzo(a)anthracene (BaA)	N.D.	0.1	-
				Chrysene (CHR)	N.D.	0.1	-
				Benzo(b)fluoranthene (BbF)	N.D.	0.1	-
				Benzo(j)fluoranthene (BjF)	N.D.	0.1	-
				Benzo(k)fluoranthene (BkF)	N.D.	0.1	-
				Benzo(a)pyrene (BaP)	N.D.	0.1	-
				Benzo(e)pyrene (BeP)	N.D.	0.1	-
				Indeno(1-,2,3-c,d)pyrene (IPY)	N.D.	0.1	-
				Dibenzo(a,h)anthracene (DBA)	N.D.	0.1	-
Benzo(g,h,i)perylene (BPE)	N.D.	0.1	-				
Sum of 7 PAHS Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	117.3	-	-				
<b>Sum of 18 PAHS</b>	129.7	-	-				
<b>TBBP-A</b>	N.D.	10	-				



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No	Specimen Name	Specimen Description & Photo	Report No.	Test Item & Results	MDL	Limit	
4	Epoxy	Black material 	CANEC15 12497201	<b>Cd</b>	N.D.	2	100
				<b>Pb</b>	N.D.	2	1000
				<b>Hg</b>	N.D.	2	1000
				<b>Cr(VI)</b>	N.D.	2	1000
				<b>PBBs</b>	N.D.	5/each	1000
				<b>PBDEs</b>	N.D.	5/each	1000
				<b>DBP</b>	N.D.	30	1000
				<b>BBP</b>	N.D.	30	1000
				<b>DEHP</b>	N.D.	30	1000
				<b>DIBP</b>	N.D.	30	1000
				Naphthalene (NAP)	N.D.	0.1	-
				Acenaphthylene (ANY)	N.D.	0.1	-
				Acenaphthene (ANA)	N.D.	0.1	-
				Fluorene (FLU)	N.D.	0.1	-
				Phenanthrene (PHE)	N.D.	0.1	-
				Anthracene (ANT)	N.D.	0.1	-
				Fluoranthene (FLT)	N.D.	0.1	-
				Pyrene (PYR)	N.D.	0.1	-
				Benzo(a)anthracene (BaA)	N.D.	0.1	-
				Chrysene (CHR)	N.D.	0.1	-
				Benzo(b)fluoranthene (BbF)	N.D.	0.1	-
				Benzo(j)fluoranthene (BjF)	N.D.	0.1	-
				Benzo(k)fluoranthene (BkF)	N.D.	0.1	-
Benzo(a)pyrene (BaP)	N.D.	0.1	-				
Benzo(e)pyrene (BeP)	N.D.	0.1	-				
Indeno(1-,2,3-c,d)pyrene (IPY)	N.D.	0.1	-				
Dibenzo(a,h)anthracene (DBA)	N.D.	0.1	-				
Benzo(g,h,i)perylene (BPE)	N.D.	0.1	-				
Sum of 7 PAHS Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	N.D.	-	-				
<b>Sum of 18 PAHS</b>	N.D.	-	-				
<b>TBBP-A</b>	N.D.	10	-				



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No	Specimen Name	Specimen Description & Photo	Report No.	Test Item & Results		MDL	Limit
				Item	Result		
5	Solder	Silvery metal(5#) 	CANEC15 12497201	Cd	N.D.	2	100
				Pb	948892 <sup>▲</sup>	2	1000
				Hg	N.D.	2	1000
				Cr(VI)	Negative	◇	-
6	Lead Frame	Copper-colored metal 	CANEC15 12497201	Cd	N.D.	2	100
				Pb	N.D.	2	1000
				Hg	N.D.	2	1000
				Cr(VI)	Negative	◇	-
7	Tin	Silvery metal(7#) 	CANEC15 14 97201	Cd	N.D.	2	100
				Pb	160	2	1000
				Hg	N.D.	2	1000
				Cr(VI)	Negative	◇	-

Note : 1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

4. ◇ Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)

◇ Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup> sample surface area.



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## Test Report

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

5. The maximum permissible limit is quoted from directive 2011/65/EU, Annex II

Remark1: The result(s) shown No.1&No.3 is/are of the total weight of wet sample.

Remark2:Result of Pb of No.5 is only for reference

Remark3:▲:According to the declaration from the client, Lead (Pb) in specimen No.5 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).



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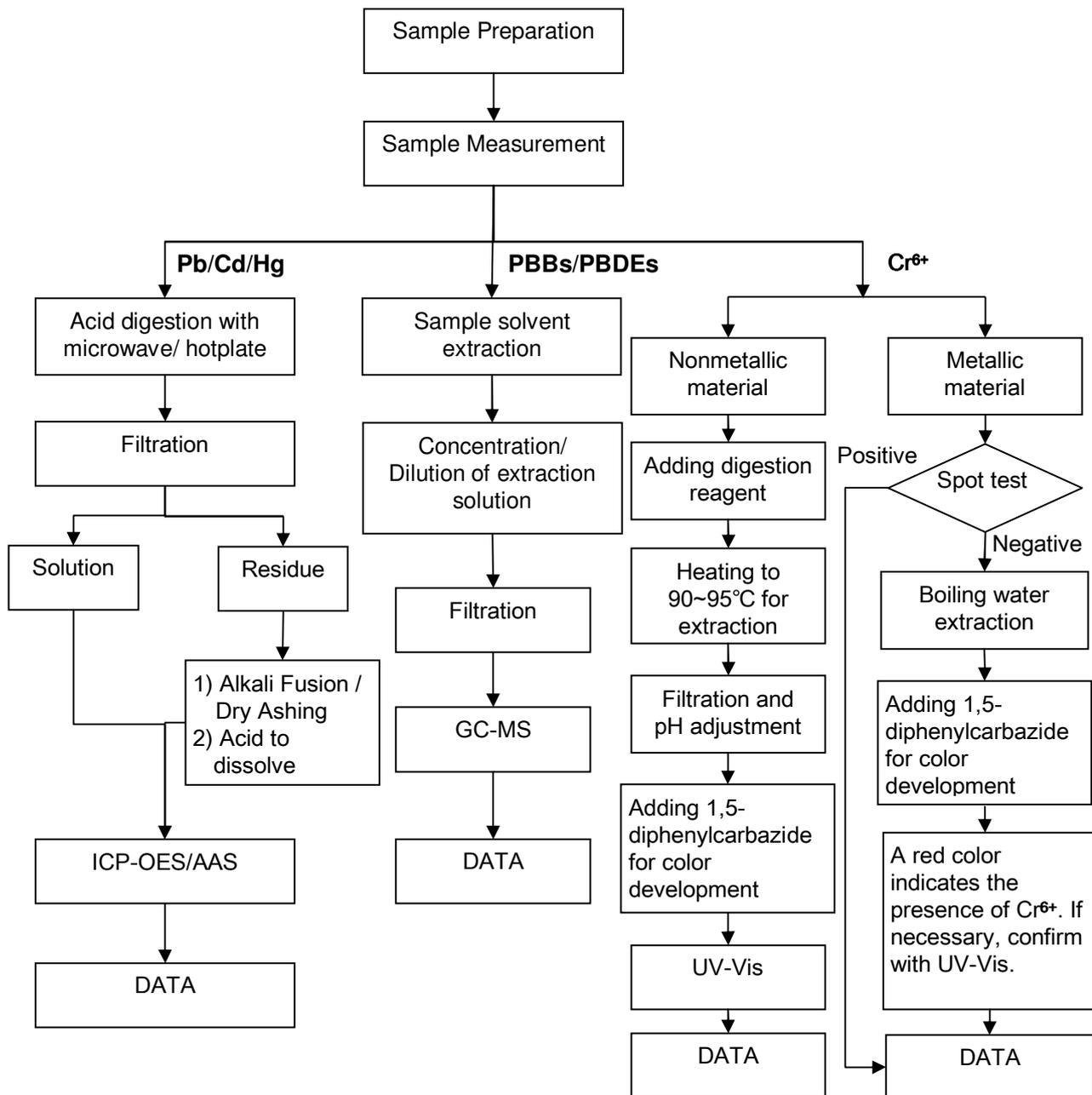
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### ATTACHMENTS

#### RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).



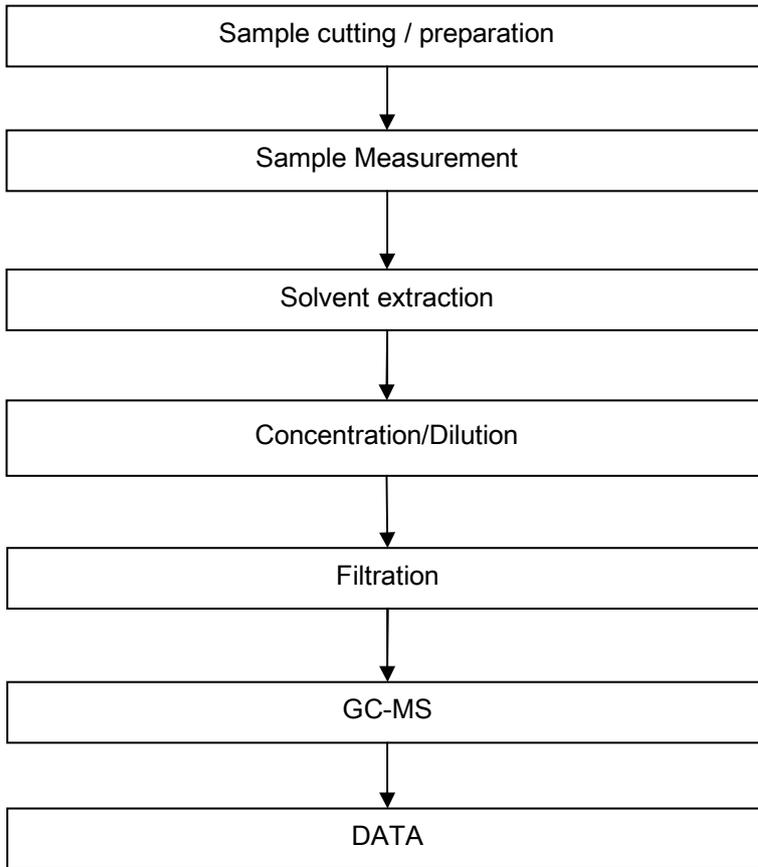
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ATTACHMENTS

Phthalates Testing Flow Chart

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



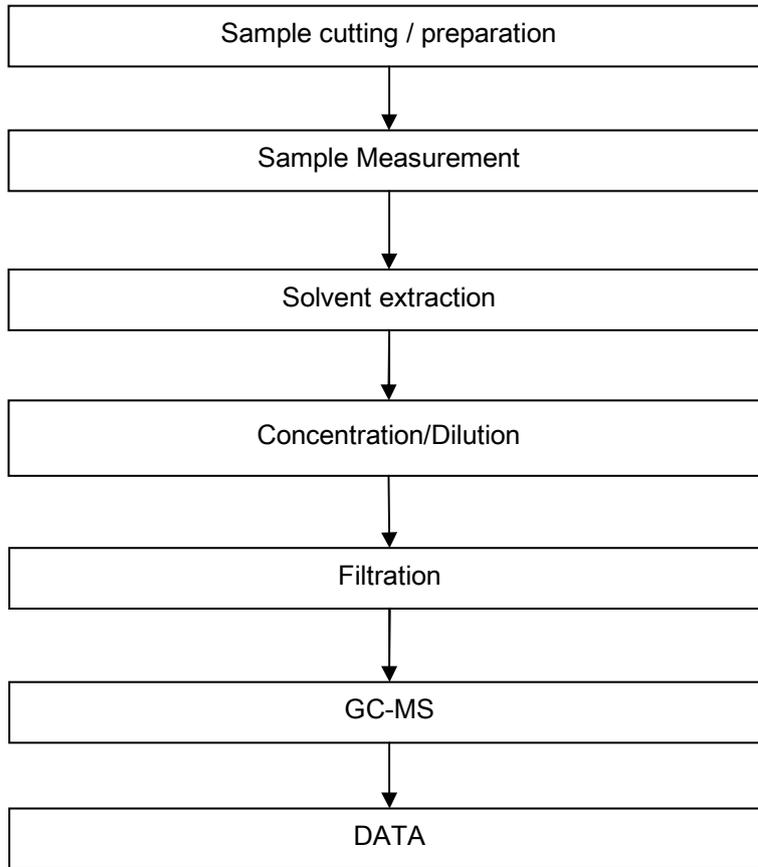
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ATTACHMENTS

PAHs Testing Flow Chart

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



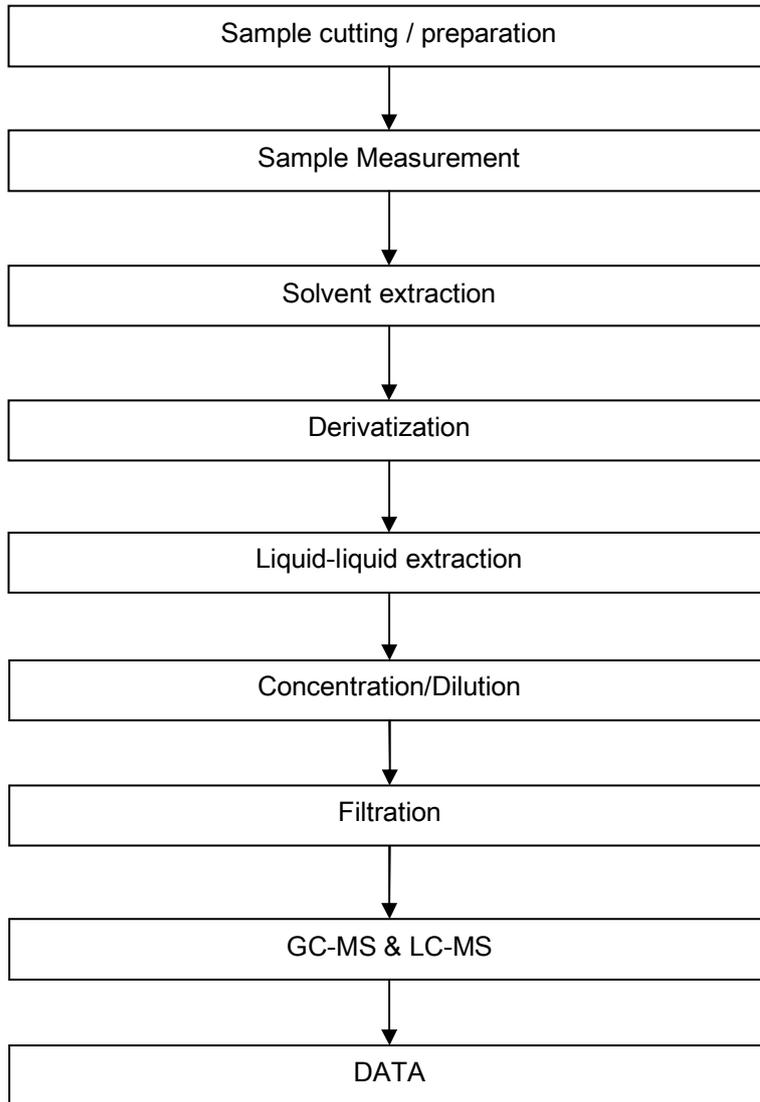
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TBBP-A Testing Flow Chart

- 1) Name of the person who made testing: Erin Guo
- 2) Name of the person in charge of testing: Cutey Yu



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