

PCB LAYOUT

备注:

电气性能:

接触阻抗:

50 毫欧 (最大)

绝缘阻抗:

100 兆欧 (最小)

耐高压:

100V AC 一分钟

胶芯耐高温: 265 °C

材料:

胶芯:

LCP/PBT

端子:

磷铜C5191

外壳:

SPCC/C2680

电镀:

端子:

接触区域镀金1u"/30u"/5u",

焊接区镀亮锡40u"min

外壳:

全区域镀镍40u"min

91-US01-XXX


- 301:MINI 5P SMT LCP黑色 铁壳, 端子镀金1u"
- 302:MINI 5P SMT LCP黑色 铜壳, 端子镀金1u"
- 576:MINI 5P SMT LCP黑色 铜壳, 端子镀金30u"
- 269:MINI 5P SMT PBT黑色 铜壳, 端子镀金1u"
- 647:MINI 5P SMT LCP黑色 铜壳, 端子镀金5u"

| TOLERANCE UNLESS OTHERWISE SPECIFIED |
|--------------------------------------|
| .XXX ±0.10 |
| .XX ±0.20 |
| .X ±0.30 |
| .X' ±3" |

| | | | |
|------------|----------------------|--|---|
| 产品名称 | MINI 5P/F SMT (0.4料) | | |
| PART NAME: | | | |
| 料号 | See Table | | C |

| ITEM: | REVISION | REV BY | APPROVED | DATE | MATL: | SEE SPECIFICATION | APPROVED |
|-------|----------|--------|----------|------|-------------|------------------------|----------|
| | | | | | PROJECTION: | THIRD ANGLE PROJECTION | CHECKED |
| | | | | | UNIT: | SCALE | REV(NO) |
| | | | | | mm | 1:1 | A |
| | | | | | | SHEET | DATE |
| | | | | | | 1 OF 1 | |

| | |
|------------|---|
| ZouJianhui | 深圳市辰丰达科技有限公司 SHENZHEN CHENFENGDA TECHNOLOGY CO., LTD |
| DATE | |

| | | | | | |
|---|---|-------------------|-----------|----------|----------|
|  | MINI USB Connector Product Specification (For External Use) | DOC. No.SPEC-0003 | | Rev.:A0 | Page:1/5 |
| | | Approved | Checked | Written | |
| | | Smile.Huang | Hargen.Hu | Z.B.peng | |

1.0 Scope: This specification covers the requirements for product performance and test methods of JDKJ's **MINI USB Connectors** of the part numbers specified as below

Product shall be of the design, structure and physical dimensions specified in the Applicable product drawing

2.0 Rating:

2.1 Voltage Rating: **30V AC**

2.2 Current Rating: **0.3AMPS**

2.3 Operation Temperature Range: **-40℃ to +75℃**

2.4 Storage Temperature Range: **-40℃ to +85℃**

2.5 Operation Relative Humidity: 95 % Maximum (non-condensing)

3.0 Test Condition:

All tests shall be performed as bellow conditions unless otherwise specified.

3.1 Temperature range : **+15℃ to +35℃**

3.2 Humidity range: 25% to 85%

3.3 Atmospheric Pressure : 86kPa to 106 kPa (860 to 1060 mber)

4.0 Material and finish

4.1Housing

4.1.1 High temp. thermoplastic,black,UL94V-0 rating

4.2 Terminal:

4.2. 1 Copper Alloy

4.3 Shell:

4.3.1 Copper Alloy


4.4. Terminal Finishing:

4.4.1:Gold plated over Nickel

5.0 Test Methods and Requirements:

5.1 Examination of product:

| Item | Test Description | Test Methods | Requirement |
|-------|---|---|---|
| 5.1.1 | Examination of Product (Outward Appearance Structure) | EIA 364-18 Shall be confirmed with eyes in accordance with each drawing, Shall be confirmed by using proper measuring instruments | 1)Outward appearance shall be good without such injurious problem 2)Structure shall be meet the design and dimensional requirements of Drawing |


| | | | | | |
|---|---|-------------------|-----------|----------|----------|
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5.2 Electrical Performance:

| Item | Test Description | Test Methods | Requirement |
|-------|---------------------------------|---|---|
| 5.2.1 | Low Level Contact Resistance | EIA 364-23 Subject mated contacts assembled in housing to 20mV maximum open circuit at 100 mA maximum | 1).Initial: 50 m Ω Maximum 2).After test: 80 m Ω Maximum |
| 5.2.2 | Insulation Resistance | EIA 364-21 Test separately between the closest adjacent contacts by pairs and between the shell and the contacts which closest to the shell at 250 VDC for 1 minute | 1).Initial: 100 M Ω Minimum 2).After test: 100 M Ω Minimum |
| 5.2.3 | Dielectric Withstanding Voltage | EIA 364-20 Test separately between the closest adjacent contacts by pairs and between the shell and the contacts which closest to the shell at 100 VAC for 1 minute | 1).No flashover or insulation breakdown 2).Leakage current: 0.5mA Maximum. |

5.3 Mechanical Performance:

| Item | Test Description | Test Methods | Requirement |
|-------|--------------------------|---|--|
| 5.3.1 | Connector Mating Force | EIA 364-13 Shall be measured with TENSION GAUGE or TENSION TESTER. Measure force necessary to mate assemblies at maximum rate of 12.5mm (or 0.492") per minute. | 1).Initial : 3.0kgf max 2).After test: 3.0kgf max |
| 5.3.2 | Connector Unmating Force | EIA 364-13 Shall be measured with TENSION GAUGE or TENSION TESTER. Measure force necessary to mate assemblies at maximum rate of 12.5mm (or 0.492") per minute. | 1).Initial : 0.3kgf min 2).After test: 0.3kgf min |

| | | | | | |
|---|------------------|--|---|-----------|----------|
|  | | MINI USB Connector Product Specification (For External Use) | DOC. No.SPEC-0003 | Rev.:A0 | Page:3/5 |
| | | | Approved | Checked | Written |
| | | | Smile.Huang | Hargen.Hu | Z.B.peng |
| 5.3.3 | Durability | EIA 364-09 Mate and unmate Connector assemblies for 5000 cycles at maximum rated of 500 cycles per hour. | 1).Shall meet visual requirement, show no physical damage. | | |
| 5.3.4 | Physical Shock | EIA 364-27 Subject mated connectors to 30G's half-sine shock pulses of 11ms duration. Three shocks in each direction applied along three mutually perpendicular planes, 18 total shock | 1).No discontinuities of 1 μ m sec or longer duration 2).Shall meet visual requirement, show no physical damage. | | |
| 5.3.5 | Random Vibration | EIA 364-28 Test Condition V Test Letter A No discontinuities of 1 μ s or longer duration when mated USB connectors are subjected to 5.35 Gs RMS. 15 minutes in each of three mutually perpendicular planes. | 1).No discontinuities of 1 μ m sec or longer duration 2).Shall meet visual requirement, show no physical damage. | | |

| | | | | | |
|---|---|-------------------|--|-----------|----------|
|  | MINI USB Connector Product Specification (For External Use) | DOC. No.SPEC-0003 | | Rev.:A0 | Page:4/5 |
| | | Approved | | Checked | Written |
| | | Smile.Huang | | Hargen.Hu | Z.B.peng |

| 5.4 Environmental Performance: | | | | |
|--------------------------------|------------------------------|--|--|--|
| Item | Test Description | Test Methods | | Requirement |
| 5.4.1 | Thermal Shock | EIA 364-32 Test Condition I 10 cycles -40°C and $+85^{\circ}\text{C}$. The USB connectors under test must be mated. | | Shall meet visual requirement, show no physical damage. |
| 5.4.2 | Humidity Life | EIA 364-31 Test Condition A Method III Subject mated connectors to 168 Hours (seven complete cycles) | | Shall meet visual requirement, show no physical damage |
| 5.4.3 | Solderability | EIA 364-52 After 1 hour \pm 5 minutes steam aging Temperature: $230 \pm 5^{\circ}\text{C}$ Time: 5 ± 0.5 seconds | | All terminations shall exhibit a continuous solder coating with 95% coverage |
| 5.4.4 | Resistance to soldering heat | MIL-STD-202 MTHOD 210A Place the connector on the P.C.Board, then immerse the solder pin up to the surface of the board in the solder bath at $260 \pm 5^{\circ}\text{C}$ for 10 seconds | | Shall meet visual requirement ,show no physical damage. |
| 5.4.5 | Salt spray | MIL-STD-1344A, Method 1001 Test Condition B NaCl solution Concentration: 5%max PH=6.5~7.2 Temperature: $35 \pm 1^{\circ}\text{C}$ Test time:12 hours | | Shall meet visual requirement, show no physical damage. |

Test Report

No. CANEC1722040009

Date: 15 Nov 2017

Page 1 of 9

HAN CHENG ELECTRONICS(SHENZHEN)CO.,LTD

YING REN SHI IND EST SHI YAN SHEN ZHEN, CHINA

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

SGS Job No. : CP17-060107 - GZ

Date of Sample Received : 06 Nov 2017

Testing Period : 06 Nov 2017 - 10 Nov 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 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

Echo

Echo Yeung
Approved Signatory



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Test Report

No. CANEC1722040009

Date: 15 Nov 2017

Page 2 of 9

Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID | Description |
|--------------|------------------|-------------------------|
| SN1 | CAN17-220400.021 | Black plastic |
| SN2 | CAN17-220400.022 | Silver-grey metal shell |
| SN3 | CAN17-220400.023 | Brassy metal pin |

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, IEC62321-5:2013, IEC62321-7-2:2017 , IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

| Test Item(s) | Limit | Unit | MDL | 021 |
|----------------------------|-------|-------|-----|-----|
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Lead (Pb) | 1,000 | mg/kg | 2 | ND |
| Mercury (Hg) | 1,000 | mg/kg | 2 | ND |
| Hexavalent Chromium (CrVI) | 1,000 | mg/kg | 8 | 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 |
| Monobromodiphenyl ether | - | mg/kg | 5 | ND |
| Dibromodiphenyl ether | - | mg/kg | 5 | ND |
| Tribromodiphenyl ether | - | mg/kg | 5 | ND |



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Test Report

No. CANEC1722040009

Date: 15 Nov 2017

Page 3 of 9

| Test Item(s) | Limit | Unit | MDL | 021 |
|-------------------------------------|-------|-------|-----|-----|
| 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. IEC 62321 series is equivalent to EN 62321 series
http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25

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 | 022 | 023 |
|-------------------------------|-------|--------------------|------|-----|-----|
| Cadmium (Cd) | 100 | mg/kg | 2 | ND | ND |
| Lead (Pb) | 1,000 | mg/kg | 2 | ND | 29 |
| Mercury (Hg) | 1,000 | mg/kg | 2 | ND | ND |
| Hexavalent Chromium (Cr(VI))▼ | - | µg/cm ² | 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
http://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/cm². 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/cm²). The coating is considered a non-CrVI based coating
 c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination



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Test Report

No. CANEC1722040009

Date: 15 Nov 2017

Page 4 of 9

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.

PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)

Test Method : With reference to CEN/TS15968:2010, analysis was performed by LC-MS.

| <u>Test Item(s)</u> | <u>CAS NO.</u> | <u>Unit</u> | <u>MDL</u> | <u>021</u> |
|------------------------------------|----------------|-------------|------------|------------|
| Perfluorooctanoic acid (PFOA) | 335-67-1 | mg/kg | 10 | ND |
| Perfluorooctane Sulfonates (PFOS)^ | - | mg/kg | 10 | ND |

Notes :

(1) ^ PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluorooctanesulfonic acid, Perfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamide, N-Ethylperfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamidoethanol and N-Ethylperfluorooctane sulfonamidoethanol.



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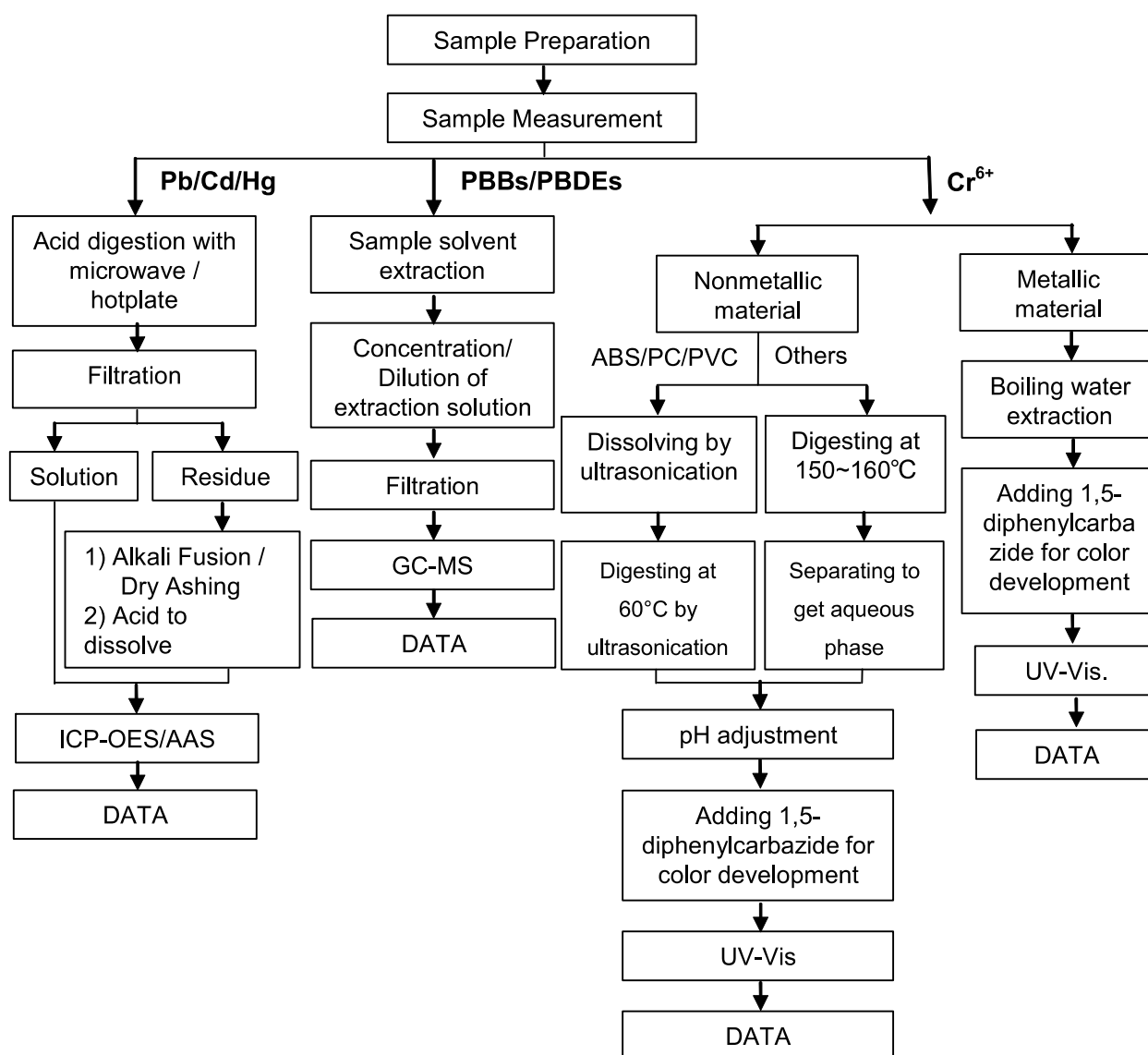
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Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

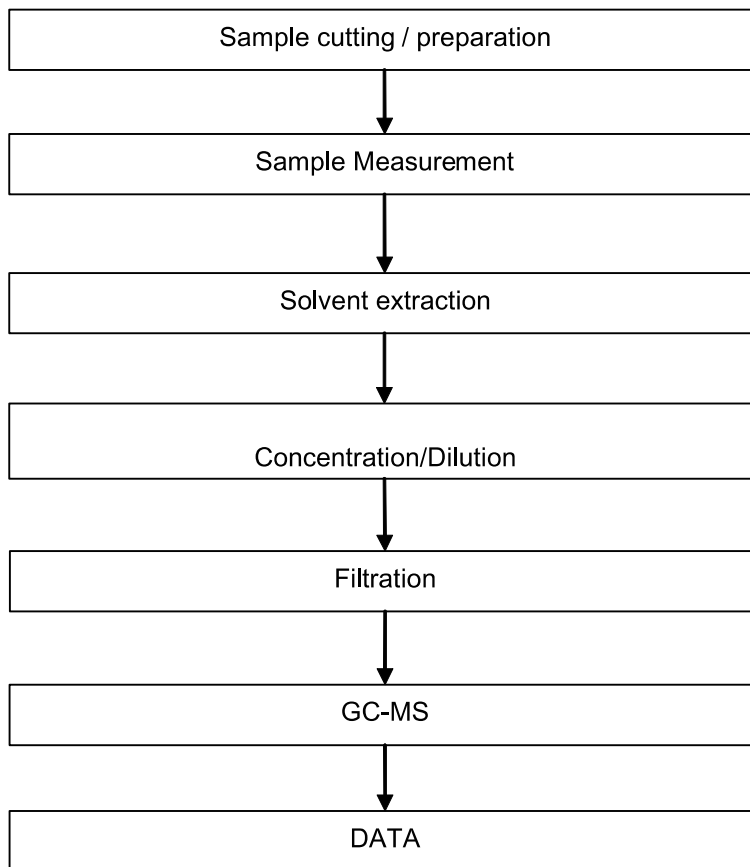
- 1) Name of the person who made testing: Edith Zhang / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Qiong Liu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ and PBBs/PBDEs test method excluded).



ATTACHMENTS

Phthalates Testing Flow Chart

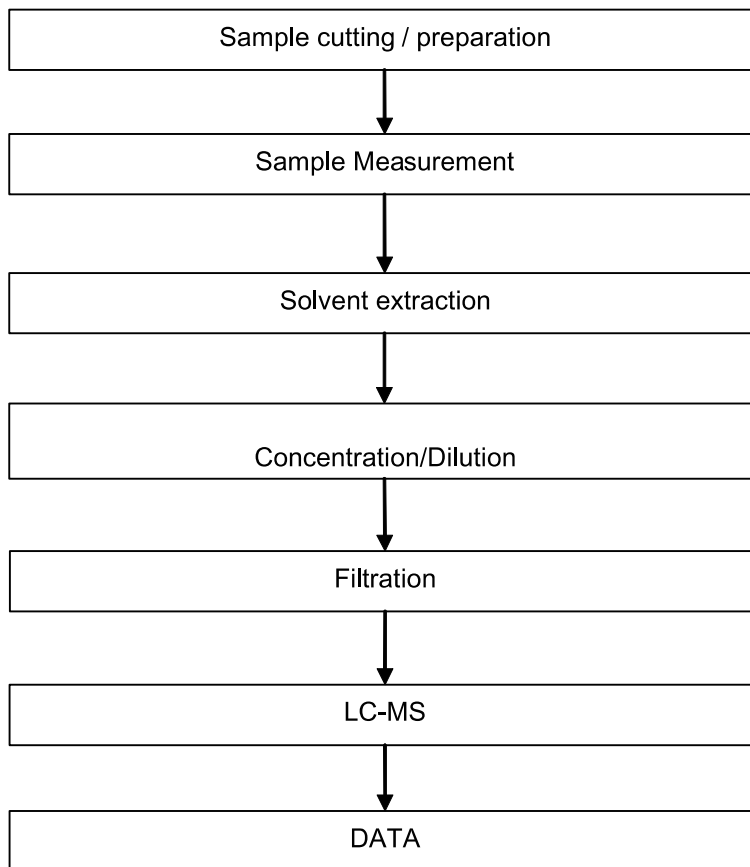
- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Qiong Liu



ATTACHMENTS

PFOA / PFOS Testing Flow Chart

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



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No. CANEC1722040009

Date: 15 Nov 2017

Page 8 of 9

Sample photo:



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