



Test Report

Report No.: SFT21100825216-05E

Date: Oct.20, 2021

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Applicant: Radiolink Electronic Limited

Address: 3/F, Building 2, Fuguo industrial park, Kaifeng Road, Meilin, Shenzhen, Guangdong China

The following merchandise was (were) submitted and identified by client as:

Sample Name: Flight controller & GPS

Model No.: MINI PIX with TS100 GPS

Manufacturer: Radiolink Electronic Limited

Address: 3/F, Building 2, Fuguo industrial park, Kaifeng Road, Meilin, Shenzhen, Guangdong China

Test Period: From Oct.08, 2021 to Oct.12, 2021

SUMMARY OF TEST RESULTS

| TEST REQUESTED | CONCLUSION |
|---|------------|
| Heavy Metals , Flame Retardants and Phthalates Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments Commission Delegated Directive (EU) 2015/863 | PASS |

Test Result(s): Please refer to next page(s).

Signed for and on Behalf of SFT



Jack Zhong / Technical Manager
Guangdong Safety Testing Co., Ltd.

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Guangdong Safety Testing Co., Ltd.

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Tel:86-769-23105888 Fax: 86-769-22899858 <http://www.sft-cert.com/>

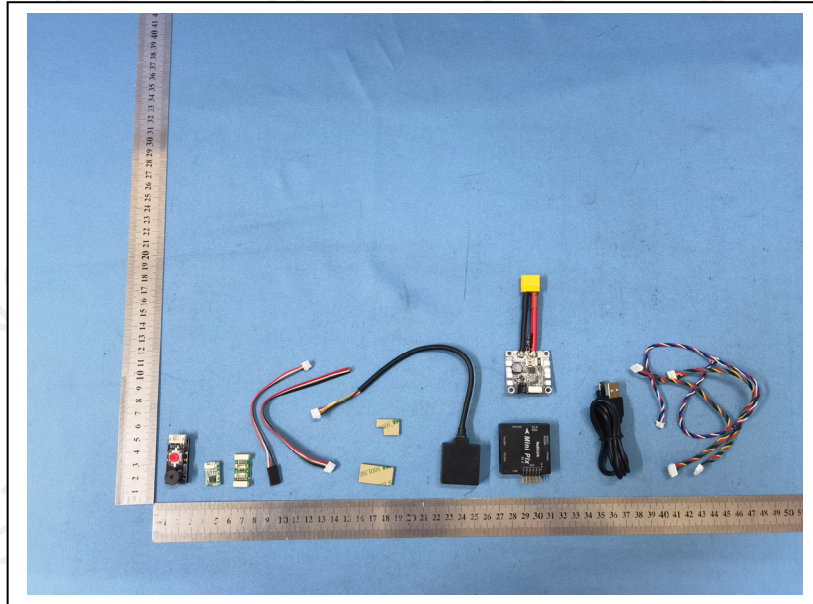
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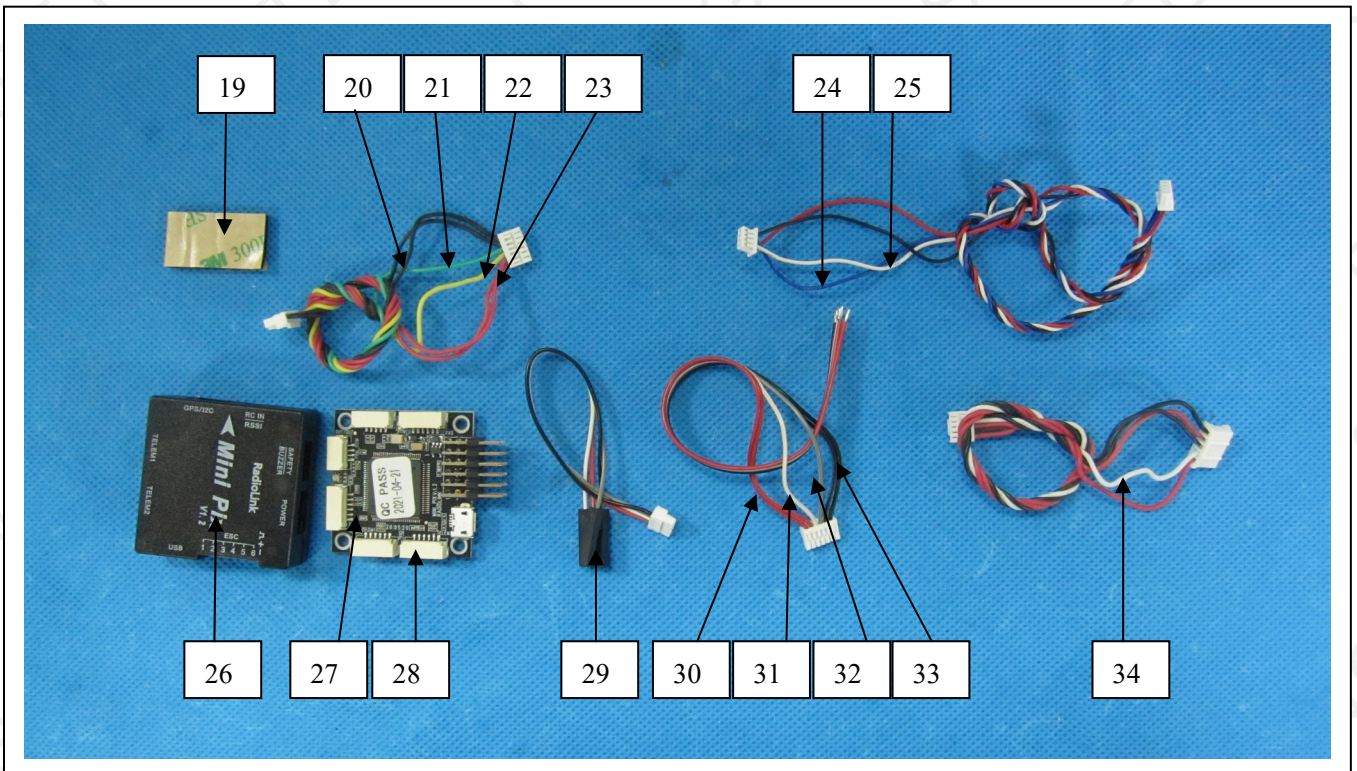
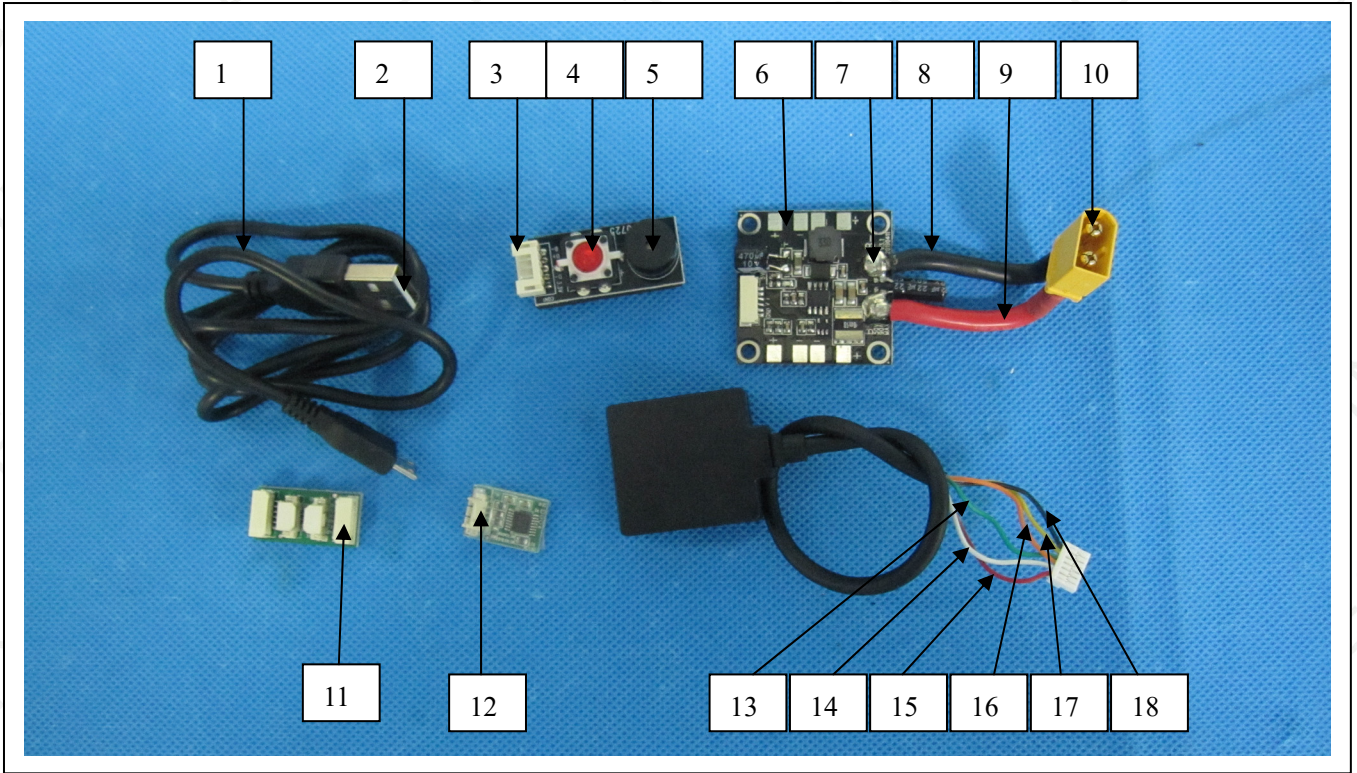
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Photo of the Submitted Sample



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| <u>Test Item(s)</u> | <u>Component Description(s)</u> | <u>Style</u> |
|---------------------|---|--------------|
| 1 | Black soft plastic wire jacket | - |
| 2 | White plastic | - |
| 3 | Beige plastic | - |
| 4 | Red plastic | - |
| 5 | Black plastic | - |
| 6 | PCB | - |
| 7 | Silver solder tin | - |
| 8 | Black soft plastic wire jacket with white printing | - |
| 9 | Red soft plastic wire jacket with white printing | - |
| 10 | Copper metal | - |
| 11 | Beige plastic | - |
| 12 | Beige plastic | - |
| 13 | Green soft plastic wire jacket | - |
| 14 | White soft plastic wire jacket | - |
| 15 | Red soft plastic wire jacket | - |
| 16 | Orange soft plastic wire jacket | - |
| 17 | Yellow soft plastic wire jacket | - |
| 18 | Black soft plastic wire jacket | - |
| 19 | Mounting tape | - |
| 20 | Black soft plastic wire jacket with white printing | - |
| 21 | Green soft plastic wire jacket with white printing | - |
| 22 | Yellow soft plastic wire jacket with black printing | - |
| 23 | Red soft plastic wire jacket with white printing | - |
| 24 | Blue soft plastic wire jacket with white printing | - |
| 25 | White soft plastic wire jacket with black printing | - |
| 26 | Black plastic with white printing | - |
| 27 | PCB | - |
| 28 | Beige plastic | - |
| 29 | Black plastic | - |
| 30 | Red soft plastic wire jacket | - |
| 31 | White soft plastic wire jacket | - |
| 32 | Gray soft plastic wire jacket | - |
| 33 | Black soft plastic wire jacket | - |
| 34 | White soft plastic wire jacket with black printing | - |

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Test Result(s):

Heavy Metals , Flame Retardants Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments Commission Delegated Directive (EU) 2015/863

| | |
|---------------------|---------------|
| Test Method: | See Appendix. |
|---------------------|---------------|

See Analytes and their corresponding Maximum Allowable Limit in Appendix

| Parameter | Lead (Pb) | Cadmium (Cd) | Mercury (Hg) | Chromium VI (Cr VI) | PBBs | PBDEs | Conclusion |
|--------------|-----------|--------------|--------------|---------------------|-------|-------|------------|
| Unit | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | - |
| Test Item(s) | - | - | - | - | - | - | - |
| 001 | ND | ND | ND | ND | ND | ND | PASS |
| 002 | ND | ND | ND | ND | ND | ND | PASS |
| 003 | ND | ND | ND | ND | ND* | ND* | PASS |
| 004 | ND | ND | ND | ND | ND | ND | PASS |
| 005 | ND | ND | ND | ND | ND | ND | PASS |
| 006 | ND | ND | ND | ND | ND* | ND* | PASS |
| 007 | ND | ND | ND | ND | NA | NA | PASS |
| 008 | ND | ND | ND | ND | ND | ND | PASS |
| 009 | ND | ND | ND | ND | ND | ND | PASS |
| 010 | 23212# | ND | ND | ND | NA | NA | EX-EMPTED |
| 011 | ND | ND | ND | ND | ND | ND | PASS |
| 012 | ND | ND | ND | ND | ND | ND | PASS |
| 013 | ND | ND | ND | ND | ND | ND | PASS |
| 014 | ND | ND | ND | ND | ND | ND | PASS |
| 015 | ND | ND | ND | ND | ND | ND | PASS |
| 016 | ND | ND | ND | ND | ND | ND | PASS |
| 017 | ND | ND | ND | ND | ND | ND | PASS |
| 018 | ND | ND | ND | ND | ND | ND | PASS |
| 019 | ND | ND | ND | ND | ND | ND | PASS |
| 020 | ND | ND | ND | ND | ND | ND | PASS |
| 021 | ND | ND | ND | ND | ND | ND | PASS |
| 022 | ND | ND | ND | ND | ND | ND | PASS |
| 023 | ND | ND | ND | ND | ND | ND | PASS |
| 024 | ND | ND | ND | ND | ND | ND | PASS |
| 025 | ND | ND | ND | ND | ND | ND | PASS |
| 026 | ND | ND | ND | ND | ND | ND | PASS |
| 027 | ND | ND | ND | ND | ND* | ND* | PASS |
| 028 | ND | ND | ND | ND | ND | ND | PASS |
| 029 | ND | ND | ND | ND | ND* | ND* | PASS |
| 030 | ND | ND | ND | ND | ND | ND | PASS |
| 031 | ND | ND | ND | ND | ND | ND | PASS |

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| | | | | | | | |
|-----|----|----|----|----|----|----|------|
| 032 | ND | ND | ND | ND | ND | ND | PASS |
| 033 | ND | ND | ND | ND | ND | ND | PASS |
| 034 | ND | ND | ND | ND | ND | ND | PASS |

Note / Key:

ND = Not detected
 NA= Not applicable
 % = percent
 Detection Limit : See Appendix.

“>” = Greater than
 mg/kg = milligram(s) per kilogram = ppm = part(s) per million
 10000 mg/kg = 1 %

Phthalates Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments Commission Delegated Directive (EU) 2015/863

| Analyte | Requirement (mg/kg) | Result (mg/kg) | | |
|-------------------------------------|---------------------|----------------|----------|----------|
| | | Test Item | | |
| | | 1+8+9 | 13+14+15 | 20+23+24 |
| Dibutyl phthalate (DBP) | 1000 | ND | ND | ND |
| Di-(2-ethyl hexyl) phthalate (DEHP) | 1000 | ND | ND | ND |
| Benzyl butyl phthalate (BBP) | 1000 | ND | ND | ND |
| Di-(iso-butyl) phthalate (DIBP) | 1000 | ND | ND | ND |
| Conclusion | | PASS | PASS | PASS |

Note / Key:

ND = Not detected
 NA= Not applicable
 % = percent
 Report Limit: See Appendix.

“>” = Greater than
 mg/kg = milligram(s) per kilogram = ppm = part(s) per million
 10000 mg/kg = 1 %

Remark:

- The testing approach is listed in table of Appendix.
- * denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, non-uniformity composition, surface flatness.
- Only selected example(s) is (are) indicated on the photograph(s) in Comment.
- According to European Council Directive 2011/65/EU, Article 5 “Adaptation of the Annexes to scientific and technical progress”, exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive.
- Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Council Directive 2011/65/EU, Article 4(1).

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- a. The sample is positive for Cr⁶⁺ if the Cr⁶⁺ concentration is greater than 0.13µg/cm², The sample coating is considered to contain Cr⁶⁺.
- b. The sample is negative for Cr⁶⁺ if the Cr⁶⁺ is N.D. (concentration less than 0.10µg/cm²), The coating is considered a non-Cr⁶⁺ based coating.
- c. The result between 0.10µg/cm² and 0.13µg/cm² is considered to be inconclusive-unavoidable coating variations may influence the determination information on storage conditions and production date of the tested sample is unavailable and thus Cr⁶⁺ results represent status of the sample at the time of testing.
- “#”According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 6(c) is reiterated here “Copper alloy containing up to 4 % lead by weight.”. Test Item(s) <I0> was claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.

APPENDIX

| List of Analytes and their Corresponding Test Methods, Detection Limit and Maximum Allowable Limit [for European Council Directive 2011/65/EU&(EU) 2015/863] : | | | | | | | |
|---|--|---|----------------------------|--------|--|-----------------|---------------------------------|
| No. | Name of Analytes | Report Limit (mg/kg) | | | | Wet Chemistry | Maximum Allowable Limit (mg/kg) |
| | | X-ray fluorescence (XRF) ^[a] | | | | | |
| | | Plastic | Metallic / glass / ceramic | Others | | | |
| 1 | Lead (Pb) | 100 | 200 | 200 | 10 ^[b] | 1000 | |
| 2 | Cadmium (Cd) | 50 | 50 | 50 | 10 ^[b] | 100 | |
| 3 | Mercury (Hg) | 100 | 200 | 200 | 10 ^[c] | 1000 | |
| 4 | Chromium (Cr) | 100 | 200 | 200 | NA | NA | |
| 5 | Chromium VI (Cr VI) | NA | NA | NA | 10 ^[d] / See ^[e] | 1000 / Negative | |
| 6 | Bromine (Br) | 200 | NA | 200 | NA | NA | |
| 7 | Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB) | NA | NA | NA | Each 50 ^[f] | Sum 1000 | |
| 8 | Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE) | NA | NA | NA | Each 50 ^[f] | Sum 1000 | |

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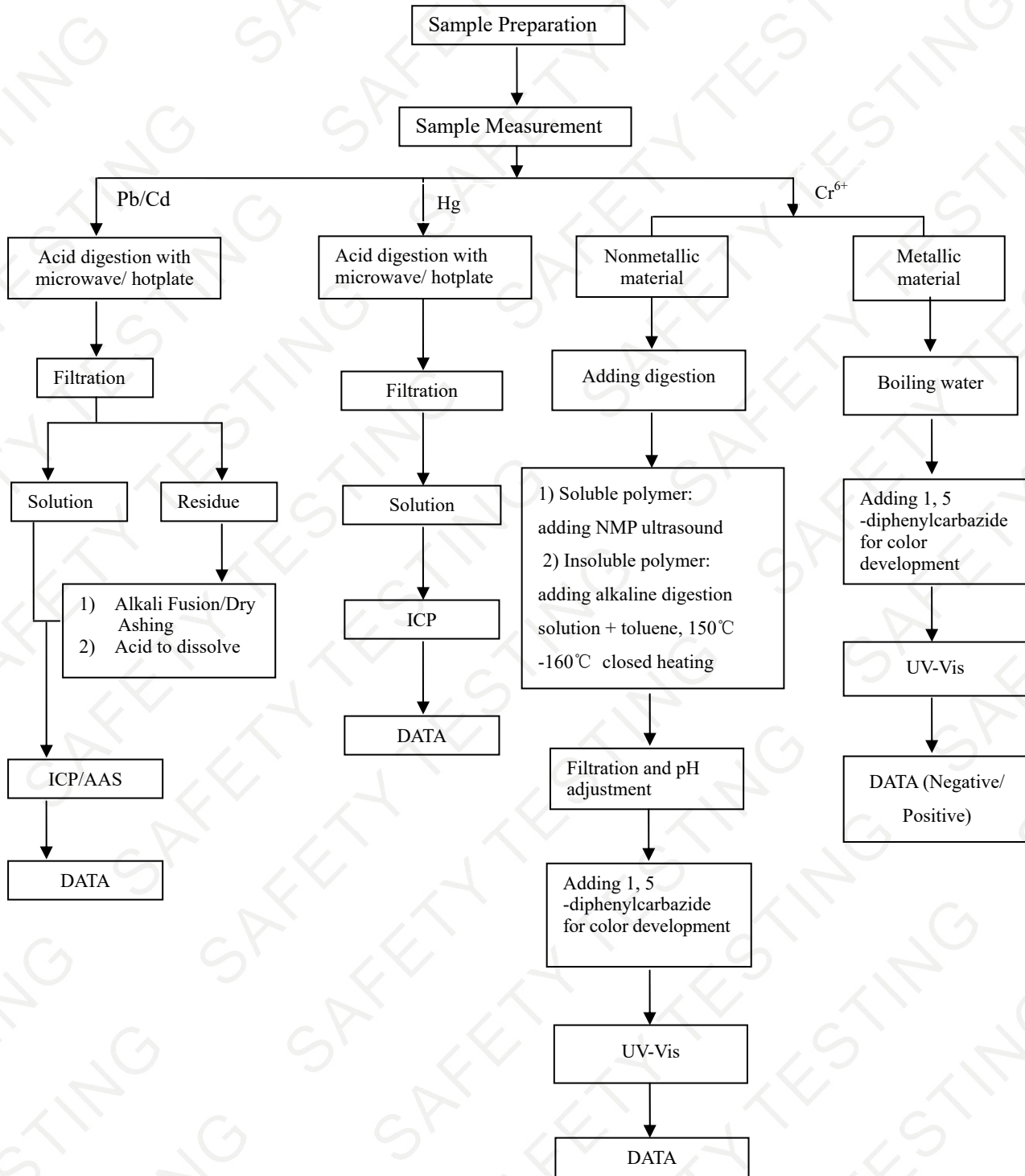
| | | | | | | |
|---|---|----|----|----|------------------------|-----------|
| 9 | Dibutyl phthalate (DBP) Di-(2-ethyl hexyl) phthalate (DEHP) Benzyl butyl phthalate (BBP) Di-(iso-butyl) phthalate (DIBP) | NA | NA | NA | Each 50 ^[g] | Each 1000 |
|---|---|----|----|----|------------------------|-----------|

NA = Not applicable

- [a] Test method with reference to IEC 62321-3-1:2013.
- [b] Test method with reference to IEC 62321-5:2013.
- [c] Test method with reference to IEC 62321-4:2013.
- [d] Polymers and Electronic-Test method with reference to European standard IEC 62321-7-2:2017.
- [e] Metal-Test method with reference to European standard IEC 62321-7-1:2015.
- [f] Test method with reference to European standard IEC 62321-6: 2015.
- [g] Test method with reference to IEC 62321-8:2017.

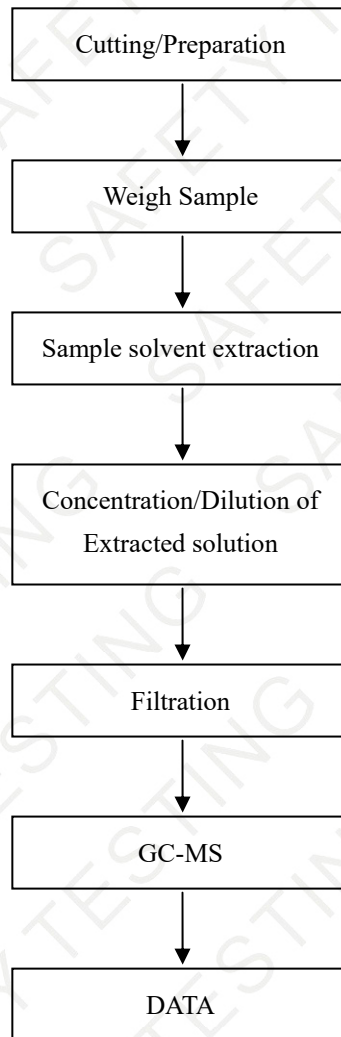
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Pb/Cd/Hg/Cr⁶⁺ Testing Flow Chart



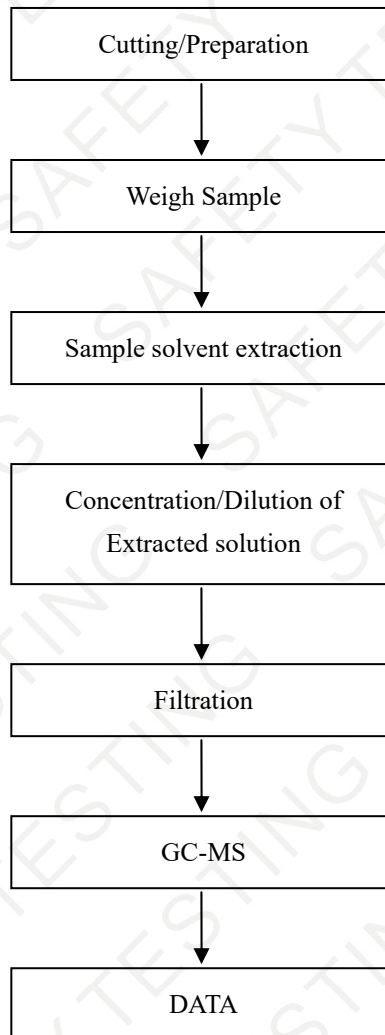
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PBBs/PBDEs Testing Flow Chart



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Phthalates Testing Flow Chart



End of Report

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