

Test Report

Report No.: AGC03507190312-001

Date: Apr.24, 2019

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Applicant: MID OCEAN BRANDS B.V

Address: 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

Report on the submitted sample(s) said to be:

Sample Name: Dual powered dynamo torch

Sample Model: KC7130

Supplier: 107978

Sample Received Date: Mar.15, 2019

Testing Period: Mar.15, 2019 to Apr.24, 2019

Test site: 1,6/F.,Building 2,No. 1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong, China

Test Requested: Please refer to following page(s).

Test Method: Please refer to following page(s).

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

Approved by: 

Liulinwen, Lewis

Technical Director



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Test Requested:

- As specified by client, to determine the Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs content in the submitted sample in accordance with EU RoHS Directive 2011/65/EU(RoHS) and its amendment directives on XRF and Chemical Method.
- As specified by client, to determine the DBP, BBP, DEHP, DIBP content in the submitted sample in accordance with Directive 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863.

Conclusion
Pass
Pass
Test Methods:

A: Screening by X-ray Fluorescence Spectrometry (XRF) :With reference to IEC 62321-3-1:2013 Ed 1.0 Screening – Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry

B: Chemical test:

| Test Item | Test Method | Measuring Instrument | MDL |
|--|----------------------------------|----------------------|---------|
| Cadmium (Cd) | IEC 62321-5:2013 Ed 1.0 | ICP-OES | 2 mg/kg |
| Lead (Pb) | IEC 62321-5:2013 Ed 1.0 | ICP-OES | 2 mg/kg |
| Mercury (Hg) | IEC 62321-4: 2013+A1:2017 Ed 1.1 | ICP-OES | 2 mg/kg |
| Non-metal Hexavalent Chromium (Cr ⁶⁺) | IEC 62321-7-2:2017 Ed 1.0 | UV-Vis | 1 mg/kg |
| Metal Hexavalent Chromium (Cr ⁶⁺) | IEC 62321-7-1:2015 Ed 1.0 | UV-Vis | / |
| PBBs/PBDEs | IEC 62321-6:2015 Ed 1.0 | GC-MS | 5 mg/kg |

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Test Results:
A、EU RoHS Directive 2011/65/EU and its amendment directives on XRF

| Seq. No. | Tested Part(s) | Results(mg/kg) | | | | |
|----------|---------------------------------------|----------------|----|----|----|----|
| | | Cd | Pb | Hg | Cr | Br |
| 1 | White plastic shell(outer shell) | BL | BL | BL | BL | BL |
| 2 | Silvery metal axis(outer shell) | BL | BL | BL | BL | - |
| 3 | Silver coating(outer shell) | BL | BL | BL | BL | BL |
| 4 | Transparent plastic lamp(outer shell) | BL | BL | BL | BL | BL |
| 5 | Silver reflective bowl(outer shell) | BL | BL | BL | BL | BL |
| 6 | Black metal circlip(outer shell) | BL | BL | BL | BL | - |
| 7 | Black plastic rocker(outer shell) | BL | BL | BL | BL | BL |
| 8 | Black plastic frame(outer shell) | BL | BL | BL | BL | BL |
| 9 | Black lifting rope(lifting rope) | BL | BL | BL | BL | BL |
| 10 | Black plastic button(lifting rope) | BL | BL | BL | BL | X* |
| 11 | Black tether(lifting rope) | BL | BL | BL | BL | BL |
| 12 | Silver screw | BL | BL | BL | BL | - |
| 13 | White plastic gear | BL | BL | BL | BL | BL |
| 14 | Black plastic gear | BL | BL | BL | BL | BL |
| 15 | Brown coating(solar panels) | BL | BL | BL | BL | BL |
| 16 | Tin solder(solar panels) | BL | BL | BL | BL | - |
| 17 | Blue wire jacket(solar panels) | BL | BL | BL | BL | BL |
| 18 | Wire core(solar panels) | BL | BL | BL | BL | - |
| 19 | Red wire jacket(solar panels) | BL | BL | BL | BL | BL |
| 20 | Solar panels glass(solar panels) | BL | BL | BL | BL | BL |
| 21 | Black toggle plastic(toggle switch) | BL | BL | BL | BL | BL |
| 22 | Silver metal shell(toggle switch) | BL | BL | BL | BL | - |
| 23 | Metal card buckle(toggle switch) | BL | BL | BL | BL | - |
| 24 | Epoxy resin board(toggle switch) | BL | BL | BL | BL | BL |

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| Seq. No. | Tested Part(s) | Results(mg/kg) | | | | |
|----------|---|----------------|----|----|----|----|
| | | Cd | Pb | Hg | Cr | Br |
| 25 | Tin solder(toggle switch) | BL | BL | BL | BL | - |
| 26 | Red wire jacket(toggle switch) | BL | BL | BL | BL | BL |
| 27 | Wire core(toggle switch) | BL | BL | BL | BL | - |
| 28 | LED lamp(lamp board) | BL | BL | BL | BL | X* |
| 29 | PCB board(lamp board) | BL | BL | BL | BL | BL |
| 30 | Tin solder(lamp board) | BL | BL | BL | BL | - |
| 31 | Chip diode(lamp board) | BL | BL | BL | BL | BL |
| 32 | Chip resistor(lamp board) | BL | BL | BL | BL | BL |
| 33 | Chip IC(lamp board) | BL | BL | BL | BL | X* |
| 34 | Silver metal axis(electric machinery) | BL | BL | BL | X* | - |
| 35 | Red plastic ring(electric machinery) | BL | BL | BL | BL | BL |
| 36 | Enameled wire(electric machinery) | BL | BL | BL | BL | - |
| 37 | Silicon steel sheets(electric machinery) | BL | BL | BL | BL | - |
| 38 | Gray magnet ring(electric machinery) | BL | BL | BL | BL | BL |
| 39 | Copper axis(electric machinery) | BL | BL | BL | BL | - |
| 40 | Silver metal shell(electric machinery) | BL | BL | BL | BL | - |
| 41 | Red wire jacket(electric machinery) | BL | BL | BL | BL | BL |
| 42 | Wire core(electric machinery) | BL | BL | BL | BL | - |
| 43 | Black wire jacket(electric machinery) | BL | BL | BL | BL | BL |
| 44 | Beige plastic support(electric machinery) | BL | BL | BL | BL | BL |
| 45 | Yellow bushing(battery) | BL | BL | BL | BL | BL |
| 46 | Button battery(battery) | BL | BL | BL | BL | BL |
| 47 | Black wire jacket(battery) | BL | BL | BL | BL | BL |
| 48 | Wire core(battery) | BL | BL | BL | BL | - |
| 49 | Red wire jacket(battery) | BL | BL | BL | BL | BL |

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| Element | Unit | Non-metal | Metal | Composite Material |
|---------|-------|---|---|---|
| Cd | mg/kg | $BL \leq 70 - 3\sigma < X$ $< 130 + 3\sigma \leq OL$ | $BL \leq 70 - 3\sigma < X$ $< 130 + 3\sigma \leq OL$ | $BL \leq 50 - 3\sigma < X$ $< 150 + 3\sigma \leq OL$ |
| Pb | mg/kg | $BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$ | $BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$ | $BL \leq 500 - 3\sigma < X$ $< 1500 + 3\sigma \leq OL$ |
| Hg | mg/kg | $BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$ | $BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$ | $BL \leq 500 - 3\sigma < X$ $< 1500 + 3\sigma \leq OL$ |
| Cr | mg/kg | $BL \leq 700 - 3\sigma < X$ | $BL \leq 700 - 3\sigma < X$ | $BL \leq 500 - 3\sigma < X$ |
| Br | mg/kg | $BL \leq 300 - 3\sigma < X$ | - | $BL \leq 250 - 3\sigma < X$ |

Note: BL= Below Limit

OL= Over limited

X= Inconclusive

“-“= Not regulated

*= Scanning by XRF and detected by chemical method. The test results of chemical method please refer to next pages.

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Remark:

- i Results were obtained by XRF for primary scanning, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the above warning value according to IEC 62321-3-1:2013 Ed 1.0.
- ii The XRF scanning test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- iii The maximum permissible limit is quoted from RoHS directive 2011/65/EU:

| RoHS Restricted Substances | Maximum Concentration Value (mg/kg) (by weight in homogenous materials) |
|---------------------------------------|--|
| Cadmium (Cd) | 100 |
| Lead (Pb) | 1000 |
| Mercury (Hg) | 1000 |
| Hexavalent Chromium (Cr(VI)) | 1000 |
| Polybrominated biphenyls (PBBs) | 1000 |
| Polybrominated diphenylethers (PBDEs) | 1000 |

Disclaimers:

This XRF Scanning report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF scanning report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

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B. The Test Results of Chemical Method:

 1) The Test Results of metal Cr⁶⁺

| Test Item(s) | MDL | Result(s) | Limit |
|---|----------|-----------|-------|
| | | 34 | |
| Hexavalent Chromium (Cr ⁶⁺) | See note | Negative | # |

Note:

- Negative = Absence of Cr(VI) on the tested areas
- MDL = Method Detection Limit
- Boiling-water-extraction:

| Number | Colorimetric result (Cr(VI) concentration) | Qualitative result |
|--------|---|--|
| 1 | The sample solution is < the 0,10 µg/cm ² equivalent comparison standard solution | The sample is negative for Cr(VI) – The Cr(VI) concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating. |
| 2 | The sample solution is ≥ the 0,10 µg/cm ² and ≤ the 0,13 µg/cm ² equivalent comparison standard solutions | The result is considered to be inconclusive – Unavoidable coating variations may influence the determination. |
| 3 | The sample solution is > the 0,13 µg/cm ² equivalent comparison standard solution | The sample is positive for Cr(VI) – The Cr(VI) concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI). |

- # = Negative indicates the absence of Cr(VI) on the tested areas concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.
- Uncertainty indicates the absence of Cr(VI) on the tested areas unavoidable coating variations may influence the determination.
- Positive indicates the presence of Cr(VI) on the tested areas concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).
- Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status of the sample at the time of testing.

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2) The Test Results of PBBs & PBDEs

Unit: mg/kg

| Item(s) | MDL | Result(s) | | | Limit |
|--|-----|-------------|-------------|-------------|------------------------------|
| | | 10 | 28 | 33 | |
| Polybrominated Biphenyls (PBBs) | | | | | |
| Monobromobiphenyl | 5 | N.D. | N.D. | N.D. | Total PBBs Content <1000 |
| Dibromobiphenyl | 5 | N.D. | N.D. | N.D. | |
| Tribromobiphenyl | 5 | N.D. | N.D. | N.D. | |
| Tetrabromobiphenyl | 5 | N.D. | N.D. | N.D. | |
| Pentabromobiphenyl | 5 | N.D. | N.D. | N.D. | |
| Hexabromobiphenyl | 5 | N.D. | N.D. | N.D. | |
| Heptabromobiphenyl | 5 | N.D. | N.D. | N.D. | |
| Octabromobiphenyl | 5 | N.D. | N.D. | N.D. | |
| Nonabromodiphenyl | 5 | N.D. | N.D. | N.D. | |
| Decabromodiphenyl | 5 | N.D. | N.D. | N.D. | |
| Total content | / | N.D. | N.D. | N.D. | |
| Polybrominated Diphenylethers (PBDEs) | | | | | |
| Monobromodiphenyl ether | 5 | N.D. | N.D. | N.D. | Total PBDEs Content <1000 |
| Dibromodiphenyl ether | 5 | N.D. | N.D. | N.D. | |
| Tribromodiphenyl ether | 5 | N.D. | N.D. | N.D. | |
| Tetrabromodiphenyl ether | 5 | N.D. | N.D. | N.D. | |
| Pentabromodiphenyl ether | 5 | N.D. | N.D. | N.D. | |
| Hexabromodiphenyl ether | 5 | N.D. | N.D. | N.D. | |
| Heptabromodiphenyl ether | 5 | N.D. | N.D. | N.D. | |
| Octabromodiphenyl ether | 5 | N.D. | N.D. | N.D. | |
| Nonabromodiphenyl ether | 5 | N.D. | N.D. | N.D. | |
| Decabromodiphenyl ether | 5 | 293 | N.D. | N.D. | |
| Total content | / | 293 | N.D. | N.D. | |
| Conclusion | / | Pass | Pass | Pass | / |

Note: N.D. = Not Detected or less than MDL
 mg/kg = parts per million
 MDL = Method Detection Limit

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2. Test result of DBP, BBP, DEHP, DIBP content

Unit: mg/kg

| Test Item(s) | Test Method/ Equipment | MDL | Result(s) | | | | Limit |
|------------------------------------|---------------------------------------|-----|-------------|-------------|-------------|-------------|-------|
| | | | 1 | 3 | 4 | 5 | |
| Di-(2-ethylhexyl) Phthalate (DEHP) | Refer to IEC 62321-8:2017 GC-MS | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Dibutyl phthalate (DBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Butylbenzyl phthalate (BBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Di-iso-butyl phthalate (DIBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Conclusion | | / | Pass | Pass | Pass | Pass | / |

Unit: mg/kg

| Test Item(s) | Test Method/ Equipment | MDL | Result(s) | | | | Limit |
|------------------------------------|---------------------------------------|-----|-------------|-------------|-------------|-------------|-------|
| | | | 7 | 8 | 9 | 10 | |
| Di-(2-ethylhexyl) Phthalate (DEHP) | Refer to IEC 62321-8:2017 GC-MS | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Dibutyl phthalate (DBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Butylbenzyl phthalate (BBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Di-iso-butyl phthalate (DIBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Conclusion | | / | Pass | Pass | Pass | Pass | / |

Unit: mg/kg

| Test Item(s) | Test Method/ Equipment | MDL | Result(s) | | | | Limit |
|------------------------------------|---------------------------------------|-----|-------------|-------------|-------------|-------------|-------|
| | | | 11 | 13 | 14 | 15 | |
| Di-(2-ethylhexyl) Phthalate (DEHP) | Refer to IEC 62321-8:2017 GC-MS | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Dibutyl phthalate (DBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Butylbenzyl phthalate (BBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Di-iso-butyl phthalate (DIBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Conclusion | | / | Pass | Pass | Pass | Pass | / |

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Unit: mg/kg

| Test Item(s) | Test Method/ Equipment | MDL | Result(s) | | | | Limit |
|------------------------------------|---------------------------------------|-----|-------------|-------------|-------------|-------------|-------|
| | | | 17 | 19 | 20 | 21 | |
| Di-(2-ethylhexyl) Phthalate (DEHP) | Refer to IEC 62321-8:2017 GC-MS | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Dibutyl phthalate (DBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Butylbenzyl phthalate (BBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Di-iso-butyl phthalate (DIBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Conclusion | | / | Pass | Pass | Pass | Pass | / |

Unit: mg/kg

| Test Item(s) | Test Method/ Equipment | MDL | Result(s) | | | | Limit |
|------------------------------------|---------------------------------------|-----|-------------|-------------|-------------|-------------|-------|
| | | | 24 | 26 | 28 | 29 | |
| Di-(2-ethylhexyl) Phthalate (DEHP) | Refer to IEC 62321-8:2017 GC-MS | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Dibutyl phthalate (DBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Butylbenzyl phthalate (BBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Di-iso-butyl phthalate (DIBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Conclusion | | / | Pass | Pass | Pass | Pass | / |

Unit: mg/kg

| Test Item(s) | Test Method/ Equipment | MDL | Result(s) | | | | Limit |
|------------------------------------|---------------------------------------|-----|-------------|-------------|-------------|-------------|-------|
| | | | 31 | 32 | 33 | 35 | |
| Di-(2-ethylhexyl) Phthalate (DEHP) | Refer to IEC 62321-8:2017 GC-MS | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Dibutyl phthalate (DBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Butylbenzyl phthalate (BBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Di-iso-butyl phthalate (DIBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Conclusion | | / | Pass | Pass | Pass | Pass | / |

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Unit: mg/kg

| Test Item(s) | Test Method/ Equipment | MDL | Result(s) | | | | Limit |
|------------------------------------|---------------------------------------|-----|-------------|-------------|-------------|-------------|-------|
| | | | 36 | 37 | 38 | 39 | |
| Di-(2-ethylhexyl) Phthalate (DEHP) | Refer to IEC 62321-8:2017 GC-MS | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Dibutyl phthalate (DBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Butylbenzyl phthalate (BBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Di-iso-butyl phthalate (DIBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Conclusion | | / | Pass | Pass | Pass | Pass | / |

Unit: mg/kg

| Test Item(s) | Test Method/ Equipment | MDL | Result(s) | | | | Limit |
|------------------------------------|---------------------------------------|-----|-------------|-------------|-------------|-------------|-------|
| | | | 41 | 43 | 44 | 45 | |
| Di-(2-ethylhexyl) Phthalate (DEHP) | Refer to IEC 62321-8:2017 GC-MS | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Dibutyl phthalate (DBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Butylbenzyl phthalate (BBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Di-iso-butyl phthalate (DIBP) | | 50 | N.D. | N.D. | N.D. | N.D. | 1000 |
| Conclusion | | / | Pass | Pass | Pass | Pass | / |

Unit: mg/kg

| Test Item(s) | Test Method/ Equipment | MDL | Result(s) | | | Limit |
|------------------------------------|---------------------------------------|-----|-------------|-------------|-------------|-------|
| | | | 46 | 47 | 49 | |
| Di-(2-ethylhexyl) Phthalate (DEHP) | Refer to IEC 62321-8:2017 GC-MS | 50 | N.D. | N.D. | N.D. | 1000 |
| Dibutyl phthalate (DBP) | | 50 | N.D. | N.D. | N.D. | 1000 |
| Butylbenzyl phthalate (BBP) | | 50 | N.D. | N.D. | N.D. | 1000 |
| Di-iso-butyl phthalate (DIBP) | | 50 | N.D. | N.D. | N.D. | 1000 |
| Conclusion | | / | Pass | Pass | Pass | / |

- Note:**
1. MDL = Method Detection Limit
 2. N.D. = Not Detected (less than method detection limit)

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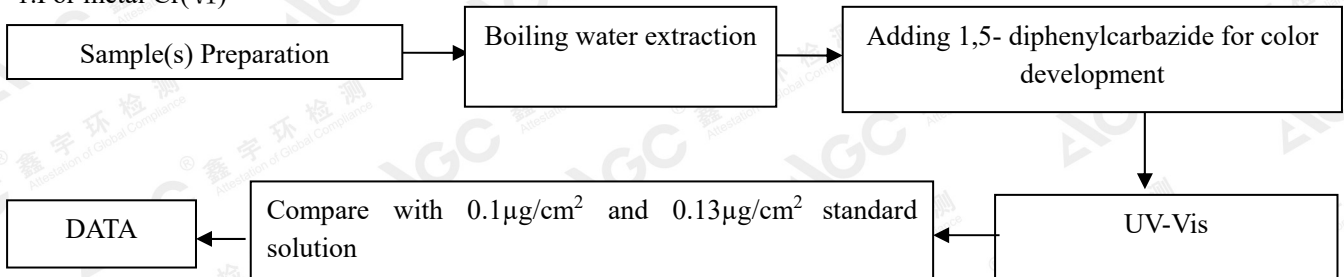
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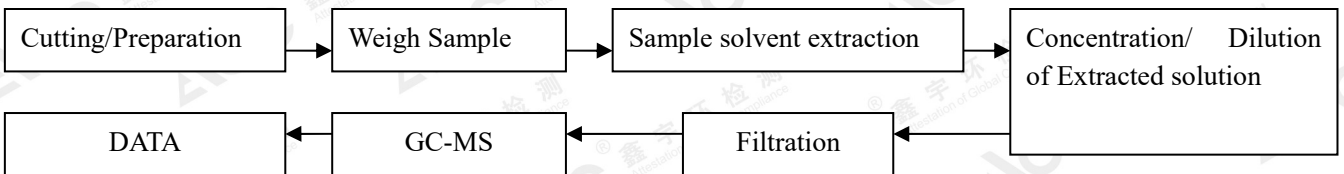
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Test Flow Chart

1. For metal Cr(VI)



2. For PBBs, PBDEs, DBP, BBP, DEHP, DIBP



Test result on specimen No.45 was resubmitted on Apr.23, 2019.

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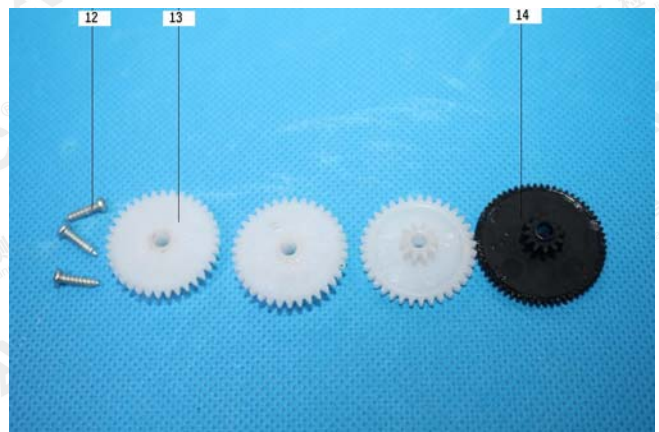
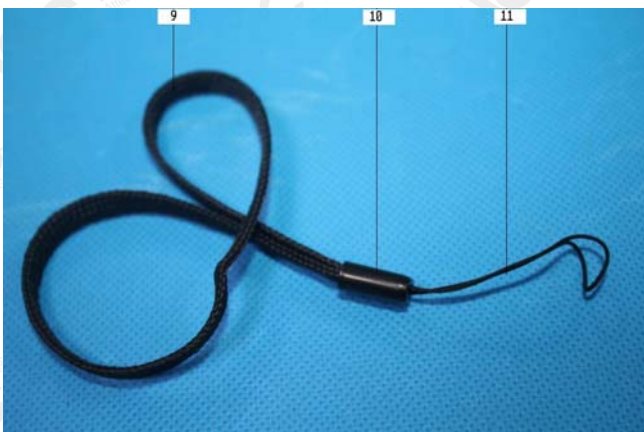
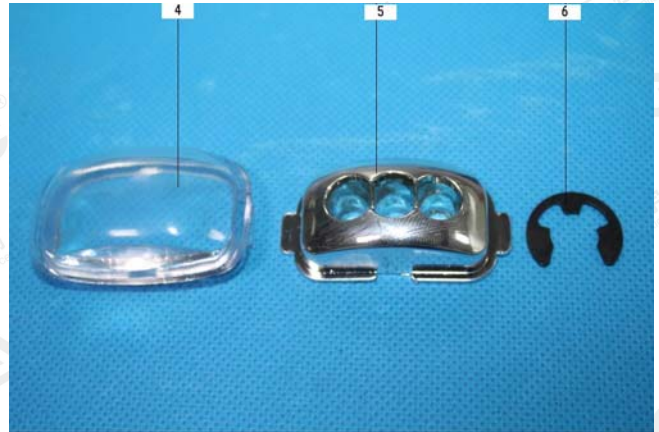
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The photo of the sample



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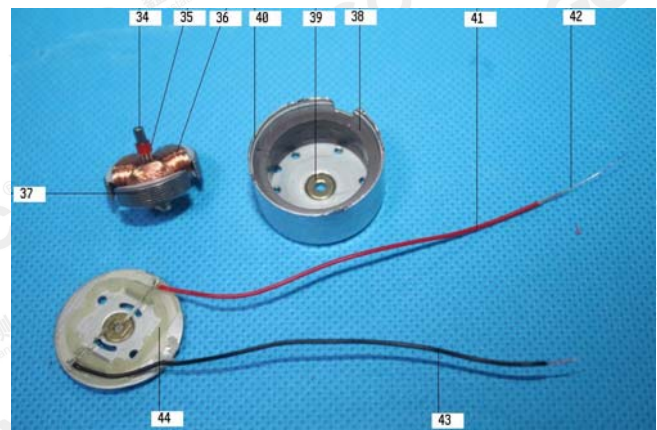
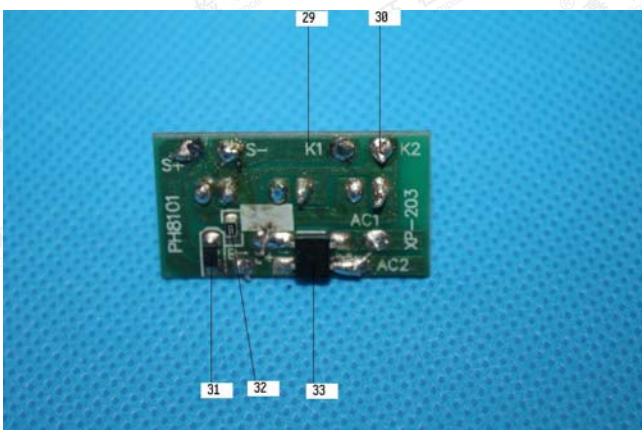
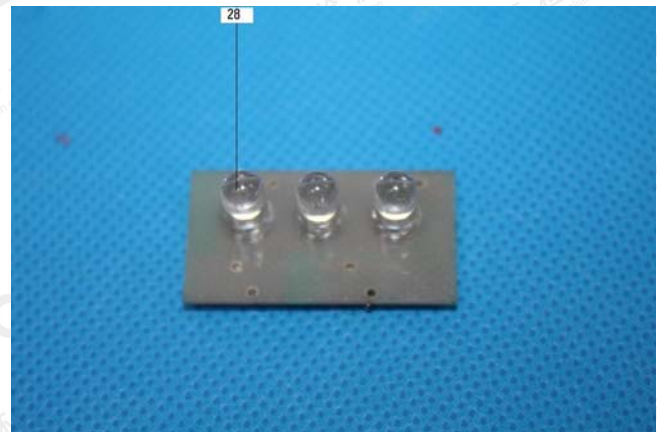
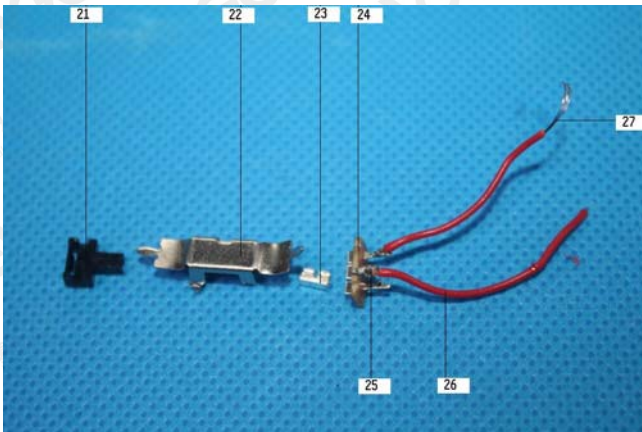
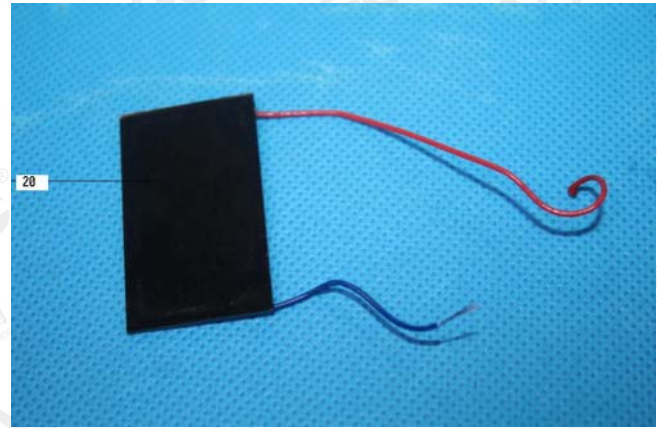
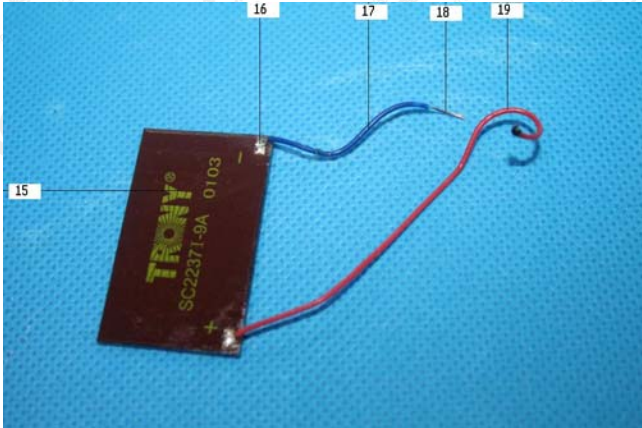


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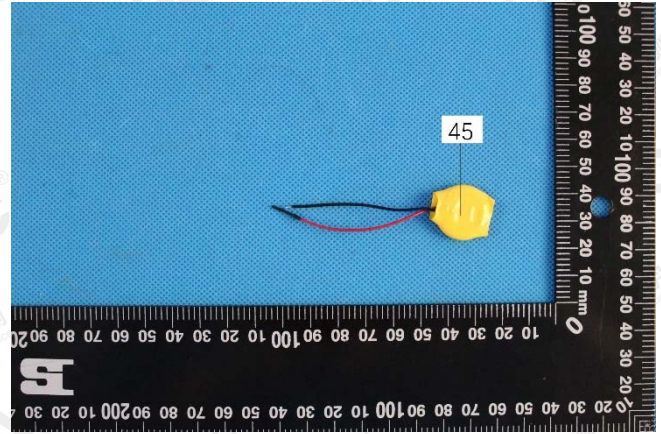
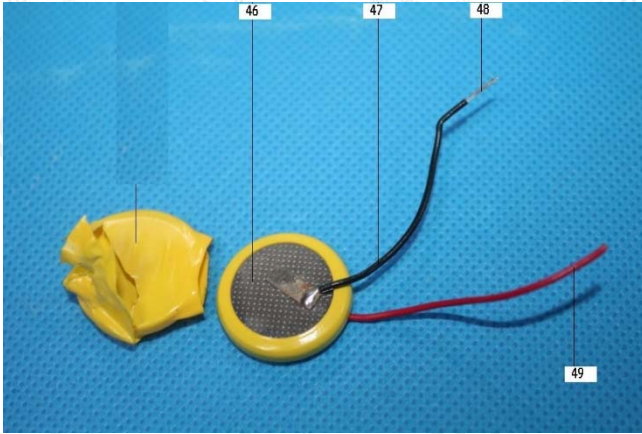


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AGC authenticate the photo only on original report

*** End of Report ***

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No.18 C