

Date: Sep.13, 2018 Report No.: AGC05794180901-001 Page 1 of 14

Applicant:

Address:

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

Vacuum Bottle With Bluetooth Speaker Sample Name:

Sample Model: 62144

Sample Received Date: Sep.03, 2018

Testing Period: Sep.03, 2018 to Sep.13, 2018

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

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

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

> Approved by Liulinwen, Lew

Technical Director



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Test Requested: Conclusion

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.

Pass

Test Methods:

A: <u>Screening by X-ray Fluorescence Spectrometry (XRF)</u>: 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 62321-4:2017 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 | The state of the s |
| 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. | T (1 D (() | | Results(mg/kg) | | | | | |
|-------------|---|------------------|----------------|----|----|----|--|--|
| No. | Tested Part(s) | Cd | Pb | Hg | Cr | Br | | |
| Silver | kettle | Alles tulon of b | Allestation | 35 | 3 | | | |
| Allestation | Black plastic base seat(Kettle) | BL | BL | BL | BL | BL | | |
| 2 | Black rubber plug(Kettle) | BL | BL | BL | BL | BL | | |
| 3 | Silver metal kettle(Kettle) | BL | BL | BL | X* | - | | |
| 4 | White seal ring(Kettle) | BL | BL | BL | BL | BL | | |
| 5 | Black plastic cover(Kettle) | BL | BL | BL | BL | BL | | |
| 6 | Silver screw | BL | BL | BL | BL | | | |
| 7 | Micro metal connector(Micro connector) | BL | BL | BL | BL | - | | |
| 8 | Black plastic contact(Micro connector) | BL | BL | BL | X* | BL | | |
| 9 | Black plastic button(Touch switch) | BL | BL | BL | BL | BL | | |
| 10 | Silver metal sheet(Touch switch) | BL | BL | BL | BL | - | | |
| 11 | Chip LED | BL | BL | BL | BL | BL | | |
| 12 | PCB board | BL | BL | BL | BL | X* | | |
| 13 | Tin solder | BL | BL | BL | BL | - | | |
| 14 | Crystal oscillator body(Crystal oscillator) | BL | BL | BL | BL | BL | | |
| 15 | Black plastic seat(Crystal oscillator) | BL | BL | BL | BL | BL | | |
| 16 | IC body(IC) | BL | BL | BL | BL | BL | | |
| 17 | Pin(IC) | BL | BL | BL | BL | _ | | |
| 18 | Chip triode | BL | BL | BL | BL | X* | | |
| 19 | Chip capacitor | BL | BL | BL | BL | BL | | |
| 20 | Chip resistor | BL | BL | BL | BL | BL | | |
| 21 | Magnetic shielding cover(Horn) | BL | BL | BL | BL | - | | |
| 22 | Silver metal frame(Horn) | BL | BL | BL | BL | - | | |
| 23 | Tin solder(Horn) | BL | X* | BL | BL | - | | |

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| Seq. | Touted Post(s) | Results(mg/kg) | | | | | |
|-------|--------------------------------------|----------------|----|---------------|-----------|--------------|--|
| No. | Tested Part(s) | Cd | Pb | Hg | Cr | Br | |
| 24 | White connecting piece(Horn) | BL | BL | BL | BL | BL | |
| 25 | Rivet(Horn) | BL | BL | BL | BL | 3 | |
| 26 | Black wire jacket(Horn) | BL | BL | BL | BL | BL | |
| 27 | Wire core(Horn) | BL | BL | BL | BL | 0 4 | |
| 28 | Red wire jacket(Horn) | BL | BL | BL | BL | BL | |
| 29 | Silver magnet(Horn) | BL | BL | BL | BL | - 1107 | |
| 30 | Black press ring(Horn) | BL | BL | BL | BL | BL | |
| 31 | Vibrating diaphragm(Horn) | BL | BL | BL | BL | BL | |
| 32 | Black globe-roof(Horn) | BL | BL | BL | X* | BL | |
| 33 | Enameled coil(Horn) | BL | BL | BL | BL | 平 至, | |
| 34 | Black double-sided adhesive(Battery) | BL | BL | BL | BL | BL | |
| 35 | Black wire jacket(Battery) | BL | BL | BL | X* | BL | |
| 36 | Wire core(Battery) | BL | BL | BL | BL | Marca - | |
| 37 | Red wire jacket(Battery) | BL | BL | BL | X* | BL | |
| 38 | Tin solder(Battery) | BL | BL | BL | BL | 9- | |
| 39 | Brown tape(Battery) | BL | BL | BL | X* | BL | |
| 40 | Red wire jacket(Microphone) | BL | BL | BL | BL | BL | |
| 41 | Black wire jacket(Microphone) | BL | BL | BL | BL | BL | |
| 42 | Wire core(Microphone) | BL | BL | BL | BL | - | |
| 43 | Tin solder(Microphone) | BL | BL | BL | BL | ®-# | |
| 44 | PCB board(Microphone) | BL | BL | BL | BL | X* | |
| 45 | Copper shell(Microphone) | BL | BL | BL | BL | - <u>M</u> - | |
| USB I | line | M | 环 | al Compliance | - F Thosa | Compilares | |
| 46 | Black handle(USB plug) | BL | BL | BL | BL | BL | |
| 47 | Tin solder(USB plug) | BL | BL | BL | BL | - | |
| 48 | White plastic plug(USB plug) | BL 🚳 | BL | BL | BL | BL | |

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| Total Pout(s) | CO | Re | esults(mg/ | kg) | 9 |
|-----------------------------------|---|--|---|---|---|
| Tested Part(s) | Cd | Pb | Hg | Cr | Br |
| Contact pin(USB plug) | BL | BL | BL | BL | - |
| USB metal plug(USB plug) | BL | BL | BL | BL | 34 |
| Tin solder(Micro plug) | BL | BL | BL | BL | - |
| Black plastic plug(Micro plug) | BL | BL | BL | BL | BL |
| Metal thimble(Micro plug) | BL | BL | BL | X* | <u>U</u> . |
| Contact pin(Micro plug) | BL | BL | BL | BL | - [11]]: |
| Micro metal plug(Micro plug) | BL | BL | BL | X* | impliance _ |
| Black outer wire jacket(Wire rod) | BL | BL | BL | BL | BL |
| Red wire jacket(Wire rod) | BL | BL | BL | BL | BL |
| Wire core(Wire rod) | BL | BL | BL | BL | 平 玉龙 |
| Black wire jacket(Wire rod) | BL | BL | BL | BL | BL |
| | USB metal plug(USB plug) Tin solder(Micro plug) Black plastic plug(Micro plug) Metal thimble(Micro plug) Contact pin(Micro plug) Micro metal plug(Micro plug) Black outer wire jacket(Wire rod) Red wire jacket(Wire rod) Wire core(Wire rod) | Contact pin(USB plug) BL USB metal plug(USB plug) BL Tin solder(Micro plug) BL Black plastic plug(Micro plug) BL Metal thimble(Micro plug) BL Contact pin(Micro plug) BL Micro metal plug(Micro plug) BL Black outer wire jacket(Wire rod) BL Red wire jacket(Wire rod) BL Wire core(Wire rod) BL | Tested Part(s) Cd Pb Contact pin(USB plug) BL BL USB metal plug(USB plug) BL BL Tin solder(Micro plug) BL BL Black plastic plug(Micro plug) BL BL Metal thimble(Micro plug) BL BL Contact pin(Micro plug) BL BL BL Micro metal plug(Micro plug) BL BL BL Black outer wire jacket(Wire rod) BL BL Red wire jacket(Wire rod) BL BL BL BL BL BL BL BL BL BL | Tested Part(s) Cd Pb Hg Contact pin(USB plug) BL BL BL USB metal plug(USB plug) BL BL BL Tin solder(Micro plug) BL BL BL Black plastic plug(Micro plug) BL BL BL Metal thimble(Micro plug) BL BL BL Contact pin(Micro plug) BL BL BL BL BL BL BL BL BL BL | Contact pin(USB plug) BL |

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| Element | Unit | Non-metal | Metal | Composite Material |
|---------|-------|---|--|---------------------------------------|
| Cd | mg/kg | BL≤70-3σ <x <130+3σ≤OL</x | BL≤70-3σ <x <130+3σ≤OL</x | BL≤50-3σ <x <150+3σ≤OL</x |
| Pb | mg/kg | BL≤700-3σ <x <1300+3σ≤OL</x | BL≤700-3σ <x <1300+3σ≤OL</x | BL≤500-3σ <x <1500+3σ≤OL</x |
| Нд | mg/kg | BL≤700-3σ <x <1300+3σ≤OL</x | BL≤700-3σ <x <1300+3σ≤OL</x | BL≤500-3σ <x <1500+3σ≤OL</x |
| Cr | mg/kg | BL≤700-3σ <x< td=""><td>BL≤700-3σ<x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<></td></x<> | BL≤700-3σ <x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<> | BL≤500-3σ <x< td=""></x<> |
| Br | mg/kg | BL≤300-3σ <x< td=""><td>- 1</td><td>BL≤250-3σ<x< td=""></x<></td></x<> | - 1 | BL≤250-3σ <x< td=""></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:

- 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 Cd

| Toot Itom(a) | Unit | Result(s) | | | | |
|--------------|-------|-----------|-----|------------|------|--|
| Test Item(s) | Omt | CC MINES | 23 | | | |
| Lead(Pb) | mg/kg | | 656 | K Tananaco | ® ## | |

Note: N.D. = Not Detected or less than MDL

MDL = Method Detection Limit

2) The Test Results of non-metal Cr⁶⁺

| | TT *4 | | | Result(s) | | | |
|--|-------|------|------|-----------|------|------|-------|
| Test Item(s) | Unit | 8 | 32 | 35 | 37 | 39 | Limit |
| Hexavalent Chromium(Cr ⁶⁺) | mg/kg | N.D. | N.D. | N.D. | N.D. | N.D. | 1000 |

Note: N.D. = Not Detected or less than MDL

MDL = Method Detection Limit

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3)The Test Results of metal Cr⁶⁺

| Togt Itom(s) | MDI | | Result(s) | | I imaid |
|--|----------|----------|-----------|----------|---------|
| Test Item(s) | MDL | 3 | 53 | 55 | Limit |
| Hexavalent Chromium(Cr ⁶⁺) | See note | Negative | Negative | 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="" cm<sup="" μg="">2 equivalent comparison standard solution</the> | 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 \geq the 0,10 µg/cm ² and \leq the0,13 µg/cm ² equivalent comparison standard solutions | The result is considered to be inconclusive – Unavoidable coating variations may influence the determination. | | | | |
| The second of th | 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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4) The Test Results of PBBs & PBDEs

Unit: mg/kg

| TANK (A) | MDI | MDL Result(s) | | | T ::4 |
|-----------------------------|--------------|---------------|------|------|--|
| Item(s) | MDL | 12 | 18 | 44 | Limit |
| Polybrominated Biphenyls (P | BBs) | | | | |
| Monobromobiphenyl | 5 | N.D. | N.D. | N.D. | |
| Dibromobiphenyl | 5 | N.D. | N.D. | N.D. | 10 m |
| Tribromobiphenyl | 5 | N.D. | N.D. | N.D. | F of Coloni Company |
| Tetrabromobiphenyl | The Common 5 | N.D. | N.D. | N.D. | Allostation C |
| Pentabromobiphenyl | 5 | N.D. | N.D. | N.D. | T. 1222 G. W. |
| Hexabromobiphenyl | 5 | N.D. | N.D. | N.D. | Total PBBs Content <1000 |
| Heptabromobiphenyl | 5 | N.D. | N.D. | N.D. | © 470 |
| Octabromobiphenyl | 5 | N.D. | N.D. | N.D. | CO N |
| Nonabromodiphenyl | 5 | N.D. | N.D. | N.D. | |
| Decabromodiphenyl | 5 | N.D. | N.D. | N.D. | T. E. T. |
| Total content | / | N.D. | N.D. | N.D. | Support Global (C) |
| Polybrominated Diphenylethe | ers (PBDEs) | | | | |
| Monobromodiphenyl ether | 5 | N.D. | N.D. | N.D. | -111 |
| Dibromodiphenyl ether | 5 | N.D. | N.D. | N.D. | The Complainte |
| Tribromodiphenyl ether | 5 | N.D. | N.D. | N.D. | © Figure of Global © |
| Tetrabromodiphenyl ether | 5 | N.D. | N.D. | N.D. | 450 " COU |
| Pentabromodiphenyl ether | 1000 S | N.D. | N.D. | N.D. | T. I PPPE G |
| Hexabromodiphenyl ether | 5 | N.D. | N.D. | N.D. | Total PBDEs Content <1000 |
| Heptabromodiphenyl ether | 5 | N.D. | N.D. | N.D. | 1000 |
| Octabromodiphenyl ether | 5 | N.D. | N.D. | N.D. | 100 |
| Nonabromodiphenyl ether | 5 | N.D. | N.D. | N.D. | |
| Decabromodiphenyl ether | 5 | N.D. | N.D. | N.D. | The state of the s |
| Total content | 1 | N.D. | N.D. | N.D. | a grand and a good and a good a good and a good a good and a good and a good a good a good and a good a goo |
| Conclusion | 5) - Com / | Pass | Pass | Pass | Anes |

N.D. = Not Detected or less than MDL

MDL = Method Detection Limit

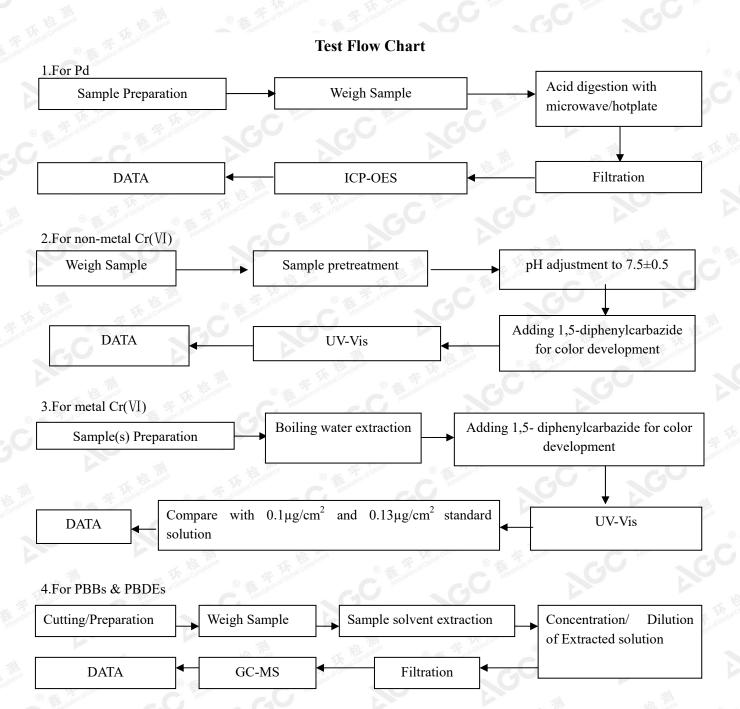
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Test result on specimen No.23 was resubmitted sample on Sep.11, 2018.

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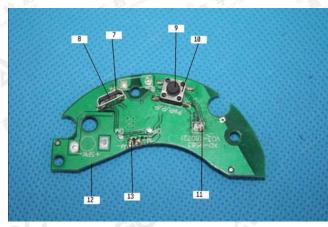
The photo of the sample

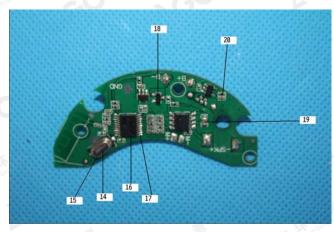




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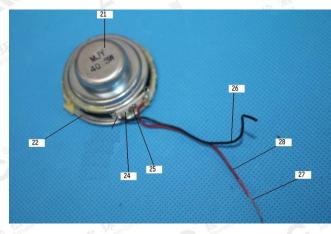
2





3

4





6

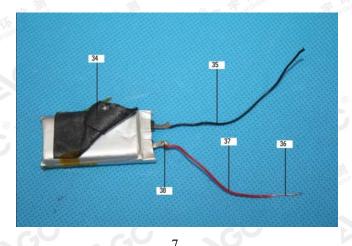
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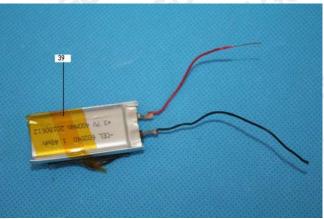
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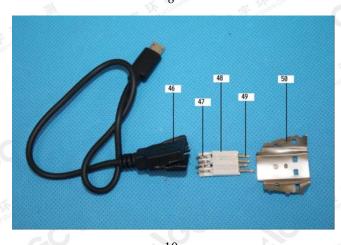


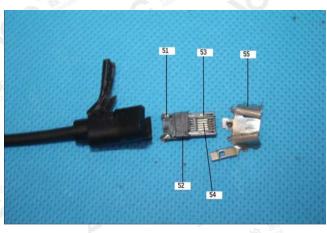
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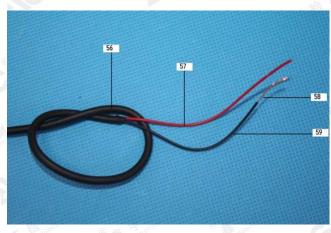




41 43 44 45







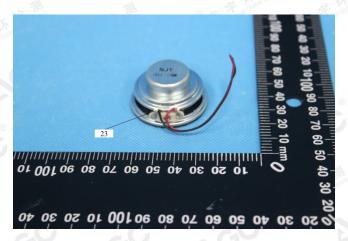
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