



TEST REPORT

REPORT No.: **DTIBW20200847**

Date: 2020-09-18

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Applicant Company Name: Beijing StrongLink Technology Co.,Ltd.

Applicant Company Address: Building C No.39 Xi erqi strrrt Haiding district Beijing 100085 China

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

Sample Name : MIRARE MODULE
 Model No. : SL030_V3.1 / SL031_V3.0/SL025B_V3.0 / SL025M_V3.0 / SL032_V3.1
 Sample Receiving Date : September 11, 2020
 Testing Period : From September 11, 2020 to September 18, 2020
 Results : Please refer to next page(s).

Summary of Test Results:

TEST REQUEST

CONCLUSION

A EU RoHS Directive 2011/65/EU and its amendment directives2015/863/EU (**RoHS 2.0**) **Pass**

Shenzhen Deesev Testing International Corp

Approved by: Tommy Jiang
lab manager



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Results:

1、EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Test method: With reference to IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

| Seq. No. | Tested Part(s) | Results | | | | |
|----------|-------------------------------------|---------|----|----|----|----|
| | | Pb | Cd | Hg | Cr | Br |
| 1 | White Printing | BL | BL | BL | BL | BL |
| 2 | Solder Point | BL | BL | BL | BL | BL |
| 3 | PCB | BL | BL | BL | BL | X |
| 4 | Black Ceramic Body Chip | BL | BL | BL | BL | BL |
| 5 | Crystal Oscillator | BL | BL | BL | BL | BL |
| 6 | Black Ceramic Body Chip | BL | BL | BL | BL | BL |
| 7 | Yellow Chip Capacitor | BL | BL | BL | BL | BL |
| 8 | Patch Resistor | BL | BL | BL | BL | BL |
| 9 | Multiplayer Ceramic Chip Capacitors | BL | BL | BL | BL | BL |
| 10 | Patch Resistor | BL | BL | BL | BL | BL |
| 11 | Patch LED | BL | BL | BL | BL | BL |



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Remark:

- (1) Results were obtained by XRF for primary screening, 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 below warning value according to IEC 62321-3-1:2013.

| 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 Limit
 X = Inconclusive

- (2) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.



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(3) The maximum permissible limit is quoted from the document 2011/65/EU and its amendment directives 2015/863/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 |
| Polybrominate ddiphenylethers (PBDEs) | ≤1000 |



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2. The Test Results of Chemical Method:

Test method:

Lead, Cadmium, Mercury Content:

With reference to IEC 62321-5:2013 and IEC62321-4:2013+AMD1:2017, by acid digestion and analysis was performed by Inductively Coupled Plasma- Atomic Emission Spectrophotometer (ICP-AES)

Hexavalent Chromium Content (For metal material):

With reference to IEC 62321-7-1:2015, by boiling-water-extraction and analysis was performed by UV-visible spectrophotometer (UV-Vis)

Hexavalent Chromium Content (For non-metal material):

With reference to IEC 62321-7-2:2017, by alkaline digestion and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic/mass spectrometer (GC-MS)

DEHP, BBP, DBP&.DIBP content:

With reference to IEC 62321-8:2017 by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)



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1) The test results of PBBs & PBDEs

| Item | Unit | MDL | Results | Limit |
|--|-------|-----|-------------|-------|
| | | | 3 | |
| Polybrominated Biphenyls (PBBs) | | | | |
| Monobromobiphenyl | mg/kg | 5 | N.D. | / |
| Dibromobiphenyl | mg/kg | 5 | N.D. | / |
| Tribromobiphenyl | mg/kg | 5 | N.D. | / |
| Tetrabromobiphenyl | mg/kg | 5 | N.D. | / |
| Pentabromobiphenyl | mg/kg | 5 | N.D. | / |
| Hexabromobiphenyl | mg/kg | 5 | N.D. | / |
| Heptabromobiphenyl | mg/kg | 5 | N.D. | / |
| Octabromobiphenyl | mg/kg | 5 | N.D. | / |
| Nonabromodiphenyl | mg/kg | 5 | N.D. | / |
| Decabromodiphenyl | mg/kg | 5 | N.D. | / |
| Total content | mg/kg | / | N.D. | ≤1000 |
| Polybrominated Diphenylethers (PBDEs)(Mon-Deca) | | | | |
| Monobromodiphenyl ether | mg/kg | 5 | N.D. | / |
| Dibromodiphenyl ether | mg/kg | 5 | N.D. | / |
| Tribromodiphenyl ether | mg/kg | 5 | N.D. | / |
| Tetrabromodiphenyl ether | mg/kg | 5 | N.D. | / |
| Pentabromodiphenyl ether | mg/kg | 5 | N.D. | / |
| Hexabromodiphenyl ether | mg/kg | 5 | N.D. | / |
| Heptabromodiphenyl ether | mg/kg | 5 | N.D. | / |
| Octabromodiphenyl ether | mg/kg | 5 | N.D. | / |
| Nonabromodiphenyl ether | mg/kg | 5 | N.D. | / |
| Decabromodiphenyl ether | mg/kg | 5 | N.D. | / |
| Total content | mg/kg | / | N.D. | ≤1000 |
| Conclusion | / | / | Pass | / |

Note:

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit



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2) The test results of DEHP, BBP, DBP & DIBP

| Item | Unit | MDL | Results | | | | | Limit |
|----------------------------------|-------|-----|-------------|-------------|-------------|-------------|-------------|-------|
| | | | 1 | 3 | 4 | 6 | 7 | |
| Di-2-ethylhexyl phthalate (DEHP) | mg/kg | 30 | N.D. | N.D. | N.D. | N.D. | N.D. | ≤1000 |
| Benzyl-n-butyl phthalate (BBP) | mg/kg | 30 | N.D. | N.D. | N.D. | N.D. | N.D. | ≤1000 |
| Di-n-butyl phthalate (DBP) | mg/kg | 30 | N.D. | N.D. | N.D. | N.D. | N.D. | ≤1000 |
| Di-iso-butyl phthalate (DIBP) | mg/kg | 30 | N.D. | N.D. | N.D. | N.D. | N.D. | ≤1000 |
| Conclusion | / | / | Pass | Pass | Pass | Pass | Pass | / |

| Item | Unit | MDL | Results | | | | Limit |
|----------------------------------|-------|-----|-------------|-------------|-------------|-------------|-------|
| | | | 8 | 9 | 10 | 11 | |
| Di-2-ethylhexyl phthalate (DEHP) | mg/kg | 30 | N.D. | N.D. | N.D. | N.D. | ≤1000 |
| Benzyl-n-butyl phthalate (BBP) | mg/kg | 30 | N.D. | N.D. | N.D. | N.D. | ≤1000 |
| Di-n-butyl phthalate (DBP) | mg/kg | 30 | N.D. | N.D. | N.D. | N.D. | ≤1000 |
| Di-iso-butyl phthalate (DIBP) | mg/kg | 30 | N.D. | N.D. | N.D. | N.D. | ≤1000 |
| Conclusion | / | / | Pass | Pass | Pass | Pass | / |

Note:

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit
- Flow chart appendix is included.
- Photo appendix is included.



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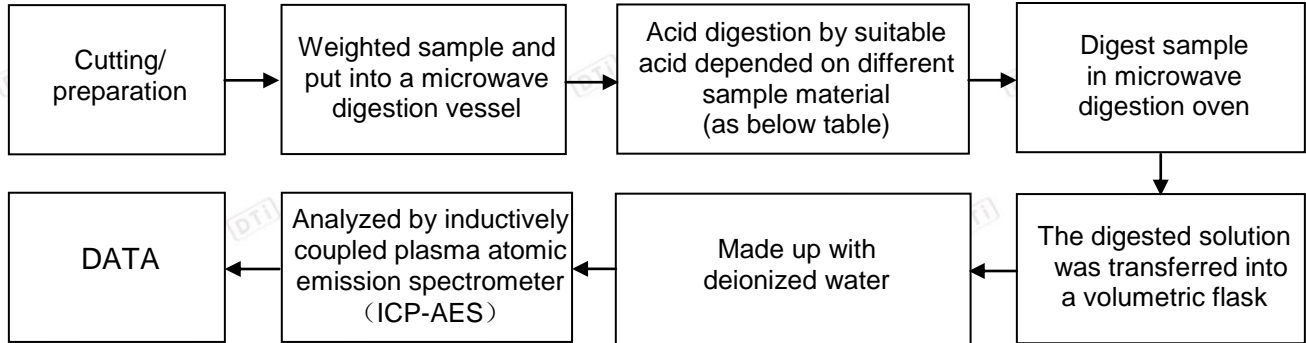
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Appendix I

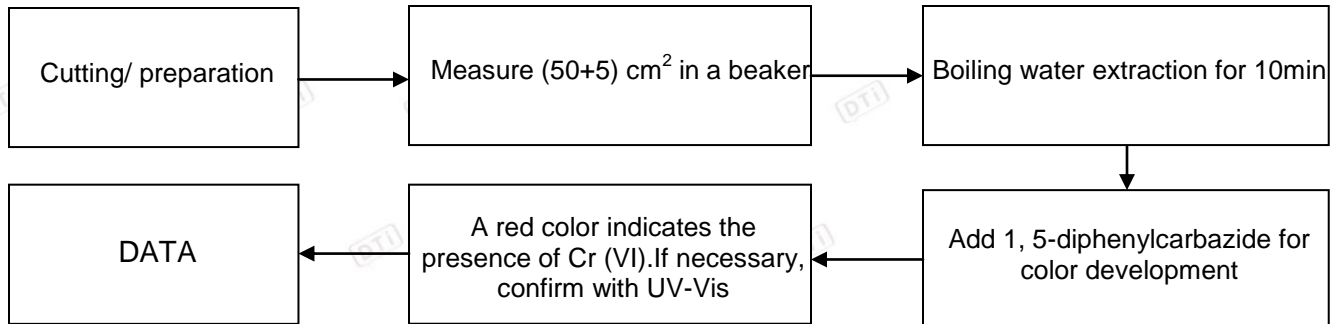
Test Flow chart

1. Test Flowchart for Cd / Pb /Hg content

These samples were dissolved totally by pre-conditioning method according to below flow chart.



2. Test Flowchart for Cr⁶⁺ content (Metal material)





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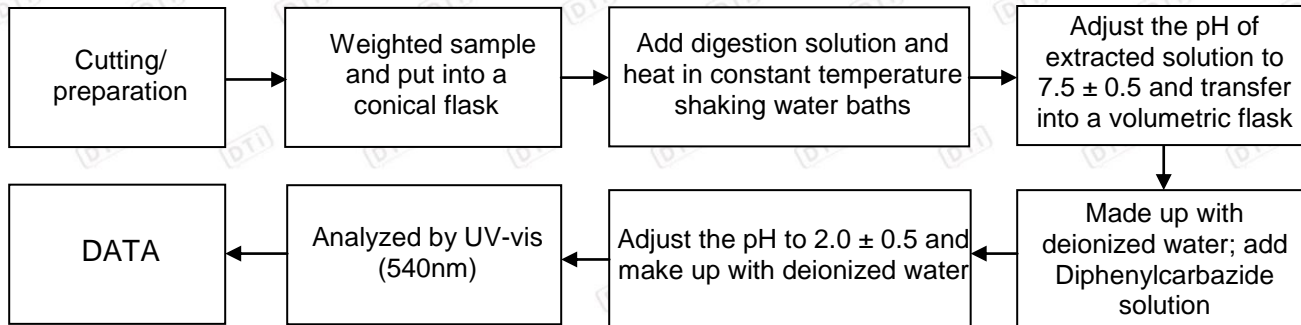
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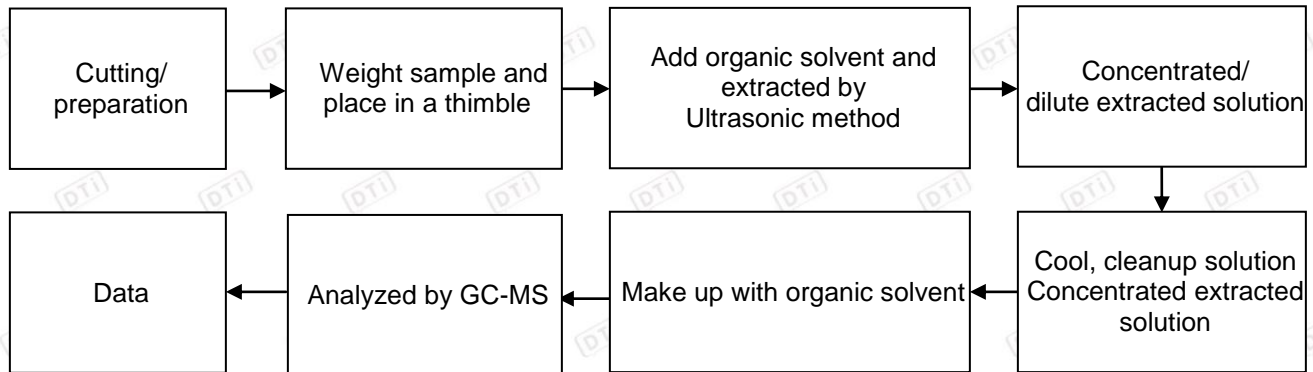
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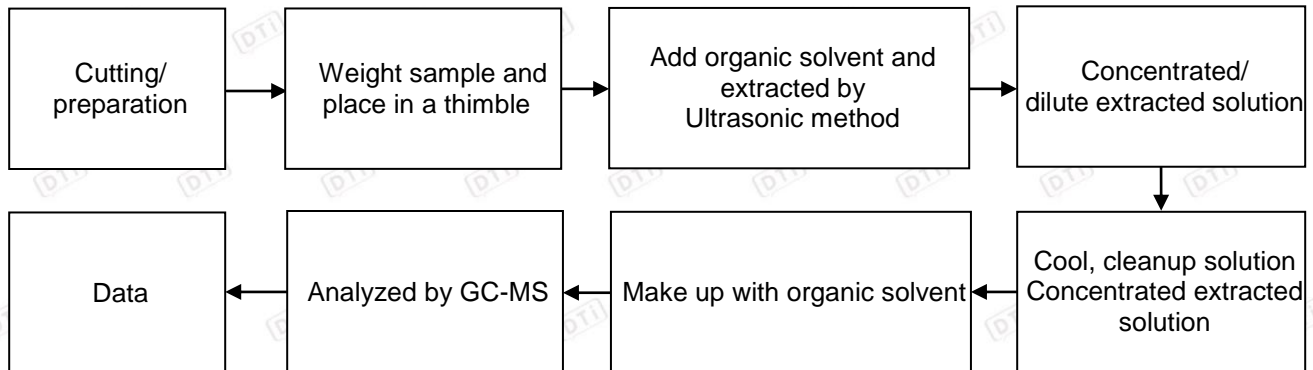
3. Test Flowchart for Cr⁶⁺ content (Non-metal material)



4. Test Flowchart for PBBs & PBDEs content



5. Test Flowchart for DEHP, BBP, DBP & DIBP content





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Table:

| | |
|------------------------------------|---|
| Sample material | Digestion Acid |
| Steel, copper, aluminum, solder | Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂ |
| Glass | HNO ₃ /HF |
| Gold, platinum, palladium, ceramic | Aqua regia |
| Silver | HNO ₃ |
| Plastic | H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl |
| Others | Any acid to total digestion |



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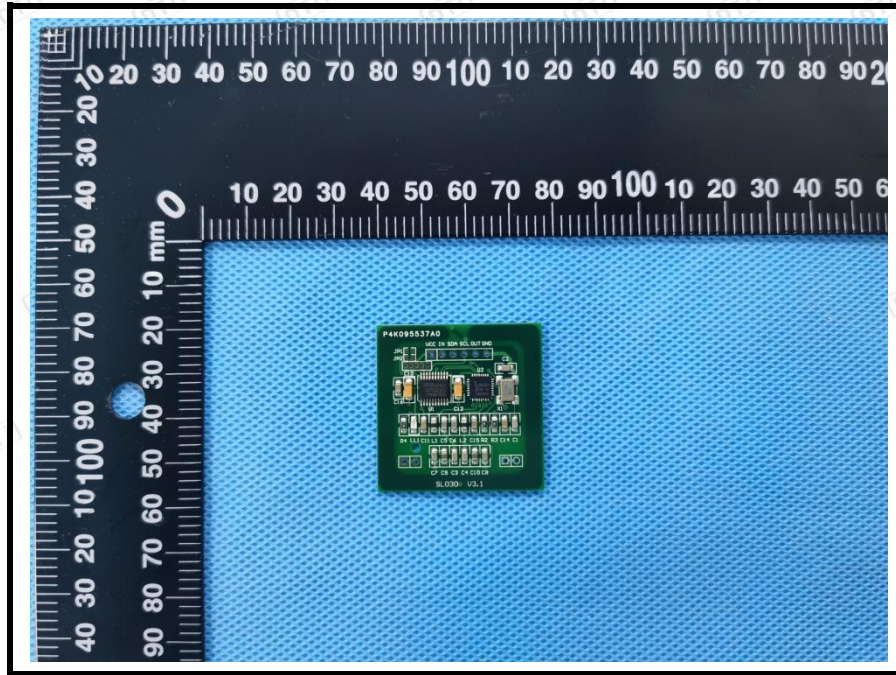


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Appendix II

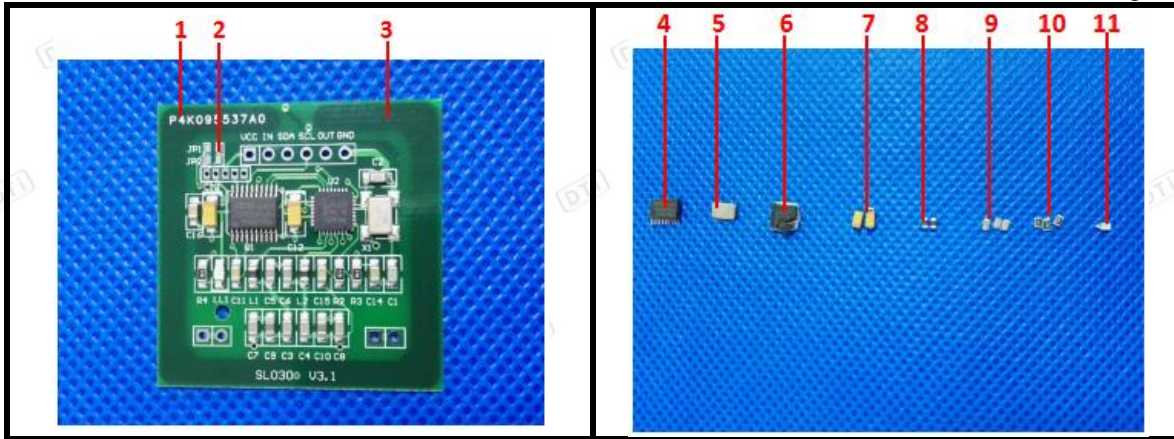
Photograph of Sample





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*** End of Report ***



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