



RoHS TEST REPORT

For

SOLAR LED STREETLIGHT

Model No.: VT-ST-100W, VT-ST-150W, VT-ST-200W, VT-ST-300W, VT-ST15, VT-ST21,
VT-ST41, VT-ST61

Applicant : V-TAC EXPORTS LIMITED

ROOM NO.301, KAM ON BUILDING 176A QUEENS ROAD CENTRAL,
CENTRAL, HONGKONG

Manufacturer : V-TAC EXPORTS LIMITED

ROOM NO.301, KAM ON BUILDING 176A QUEENS ROAD CENTRAL,
CENTRAL, HONGKONG

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Report Number : GST.190823.A101R

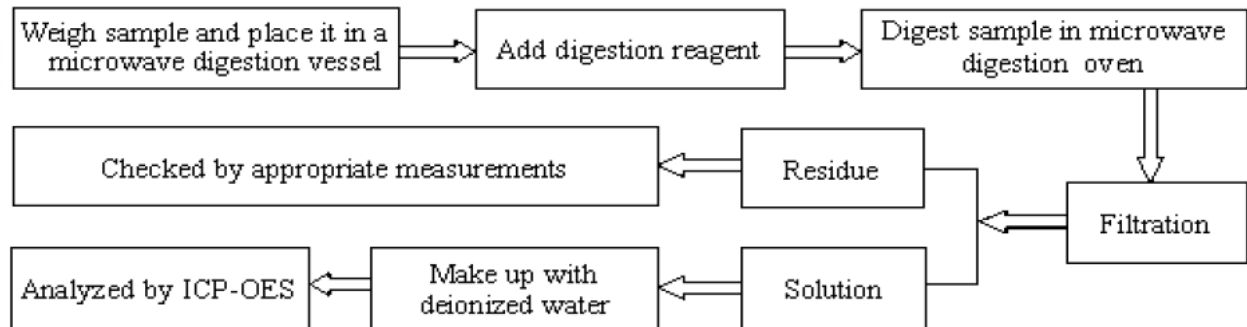
Issued Date : September 26, 2019

Date of Report : September 26, 2019

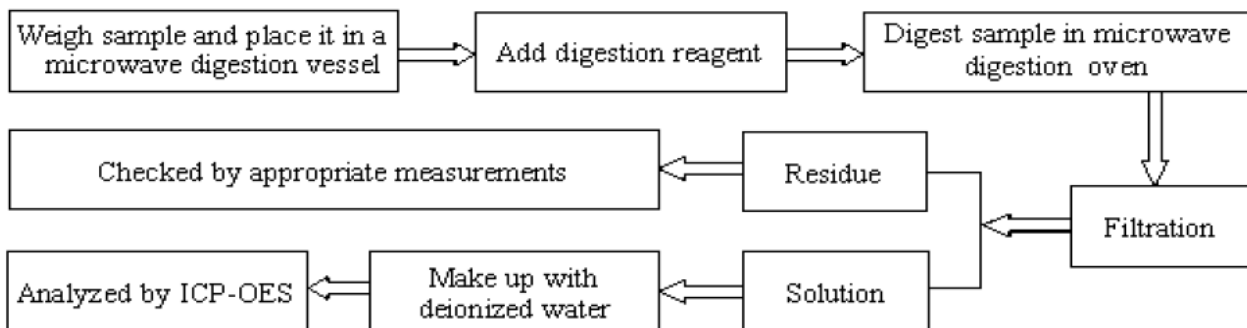
Note:

1. The test data and result is based on the tested sample only.
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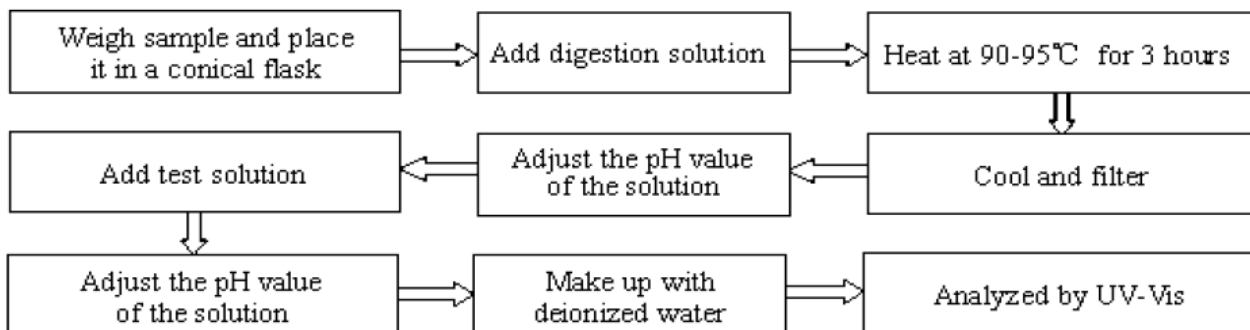
1. Lead(Pb), Cadmium(Cd)



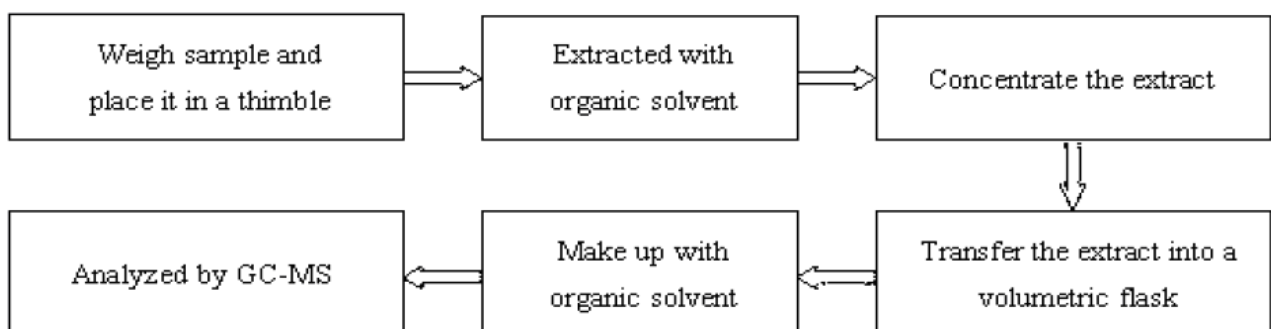
2. Mercury(Hg)



3. Hexavalent Chromium (Cr(VI))



4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers(PBDEs), HBCDD, DBP, DEHP, BBP



Method Detection Limit (MDL) in wet chemical test

| Test Items | Pb | Cd | Hg | PBBs & PBDEs |
|------------|-------|-------|-------|--------------|
| Unit | mg/kg | mg/kg | mg/kg | mg/kg |
| MDL | 2 | 2 | 2 | 2 |

| | | |
|-------------------|---|---|
| Result | : | Pass |
| Conclusion | : | An independent evaluation on the above-mentioned product(s) has been conducted pursuant to 2011/65/EU and (EU)2015/863 of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment, and concluded that the equipment under evaluation met the legislative requirements of this directive. |

Reviewed by

 Nico Xie
 Manager
 September 26, 2019

Test Data Summary

| SAMPLE NO. | COMPONENTS | Item | Results of EDXRF (P/F/D) | Results of testing(mg/kg) | Chemical testing limit (mg/kg) | Conclusion (P/F) |
|------------|-----------------|-------|--------------------------|---------------------------|--------------------------------|------------------|
| 1 | Diffuser | Cd | P | N.D. | <100 | P |
| | | Cr | P | N.D. | <1000 | P |
| | | Hg | P | N.D. | <1000 | P |
| | | Pb | P | N.D. | <1000 | P |
| | | PBBs | D | N.D. | <1000 | P |
| | | PBDEs | D | N.D. | <1000 | P |
| | | HBCDD | D | N.D. | <1000 | P |
| | | DEHP | D | N.D. | <1000 | P |
| | | DBP | D | N.D. | <1000 | P |
| | | BBP | D | N.D. | <1000 | P |
| 2 | Metal enclosure | Cd | P | N.D. | <100 | P |
| | | Cr | P | N.D. | <1000 | P |
| | | Hg | P | N.D. | <1000 | P |
| | | Pb | P | N.D. | <1000 | P |
| | | PBBs | D | / | <1000 | N.A. |
| | | PBDEs | D | / | <1000 | N.A. |
| | | HBCDD | D | / | <1000 | N.A. |
| | | DEHP | D | / | <1000 | N.A. |
| | | DBP | D | / | <1000 | N.A. |
| | | BBP | D | / | <1000 | N.A. |
| 3 | Glass | Cd | P | / | <100 | N.A. |
| | | Cr | P | / | <1000 | N.A. |
| | | Hg | P | / | <1000 | N.A. |
| | | Pb | P | / | <1000 | N.A. |
| | | PBBs | D | N.D. | <1000 | P |
| | | PBDEs | D | N.D. | <1000 | P |
| | | HBCDD | D | N.D. | <1000 | P |
| | | DEHP | D | N.D. | <1000 | P |
| | | DBP | D | N.D. | <1000 | P |
| | | BBP | D | N.D. | <1000 | P |
| 4 | Screws | Cd | P | N.D. | <100 | P |
| | | Cr | P | N.D. | <1000 | P |
| | | Hg | P | N.D. | <1000 | P |
| | | Pb | P | N.D. | <1000 | P |
| | | PBBs | D | / | <1000 | N.A. |
| | | PBDEs | D | / | <1000 | N.A. |
| | | HBCDD | D | / | <1000 | N.A. |
| | | DEHP | D | / | <1000 | N.A. |
| | | DBP | D | / | <1000 | N.A. |
| | | BBP | D | / | <1000 | N.A. |

| SAMPLE NO. | COMPONENTS | Item | Results of EDXRF (P/F/D) | Results of testing(mg/kg) | Chemical testing limit (mg/kg) | Conclusion (P/F) |
|------------|---------------|-------|--------------------------|---------------------------|--------------------------------|------------------|
| 5 | Glue | Cd | P | N.D. | <100 | P |
| | | Cr | P | N.D. | <1000 | P |
| | | Hg | P | N.D. | <1000 | P |
| | | Pb | P | N.D. | <1000 | P |
| | | PBBs | D | N.D. | <1000 | P |
| | | PBDEs | D | N.D. | <1000 | P |
| | | HBCDD | D | N.D. | <1000 | P |
| | | DEHP | D | N.D. | <1000 | P |
| | | DBP | D | N.D. | <1000 | P |
| | | BBP | D | N.D. | <1000 | P |
| 6 | Metal support | Cd | P | N.D. | <100 | P |
| | | Cr | P | N.D. | <1000 | P |
| | | Hg | P | N.D. | <1000 | P |
| | | Pb | P | N.D. | <1000 | P |
| | | PBBs | D | / | <1000 | N.A. |
| | | PBDEs | D | / | <1000 | N.A. |
| | | HBCDD | D | / | <1000 | N.A. |
| | | DEHP | D | / | <1000 | N.A. |
| | | DBP | D | / | <1000 | N.A. |
| | | BBP | D | / | <1000 | N.A. |
| 7 | LED | Cd | P | N.D. | <100 | P |
| | | Cr | P | N.D. | <1000 | P |
| | | Hg | P | N.D. | <1000 | P |
| | | Pb | P | N.D. | <1000 | P |
| | | PBBs | D | N.D. | <1000 | P |
| | | PBDEs | D | N.D. | <1000 | P |
| | | HBCDD | D | N.D. | <1000 | P |
| | | DEHP | D | N.D. | <1000 | P |
| | | DBP | D | N.D. | <1000 | P |
| | | BBP | D | N.D. | <1000 | P |
| 8 | PCB | Cd | P | N.D. | <100 | P |
| | | Cr | P | N.D. | <1000 | P |
| | | Hg | P | N.D. | <1000 | P |
| | | Pb | P | N.D. | <1000 | P |
| | | PBBs | D | N.D. | <1000 | P |
| | | PBDEs | D | N.D. | <1000 | P |
| | | HBCDD | D | N.D. | <1000 | P |
| | | DEHP | D | N.D. | <1000 | P |
| | | DBP | D | N.D. | <1000 | P |
| | | BBP | D | N.D. | <1000 | P |

| SAMP LE NO. | COMPONENTS | Item | Results of EDXRF (P/F/D) | Results of testing(mg/kg) | Chemical testing limit (mg/kg) | Conclusio n (P/F) |
|----------------|---------------|-------|--------------------------------|------------------------------|---|-------------------------|
| 9 | Internal wire | Cd | P | N.D. | <100 | P |
| | | Cr | P | N.D. | <1000 | P |
| | | Hg | P | N.D. | <1000 | P |
| | | Pb | P | N.D. | <1000 | P |
| | | PBBs | D | N.D. | <1000 | P |
| | | PBDEs | D | N.D. | <1000 | P |
| | | HBCDD | D | N.D. | <1000 | P |
| | | DEHP | D | N.D. | <1000 | P |
| | | DBP | D | N.D. | <1000 | P |
| 10 | Supply cord | Cd | P | N.D. | <100 | P |
| | | Cr | P | N.D. | <1000 | P |
| | | Hg | P | N.D. | <1000 | P |
| | | Pb | P | N.D. | <1000 | P |
| | | PBBs | D | N.D. | <1000 | P |
| | | PBDEs | D | N.D. | <1000 | P |
| | | HBCDD | D | N.D. | <1000 | P |
| | | DEHP | D | N.D. | <1000 | P |
| | | DBP | D | N.D. | <1000 | P |
| 11 | Capacitors | Cd | P | N.D. | <100 | P |
| | | Cr | P | N.D. | <1000 | P |
| | | Hg | P | N.D. | <1000 | P |
| | | Pb | P | N.D. | <1000 | P |
| | | PBBs | D | N.D. | <1000 | P |
| | | PBDEs | D | N.D. | <1000 | P |
| | | HBCDD | D | N.D. | <1000 | P |
| | | DEHP | D | N.D. | <1000 | P |
| | | DBP | D | N.D. | <1000 | P |
| 12 | Resistors | Cd | P | N.D. | <100 | P |
| | | Cr | P | N.D. | <1000 | P |
| | | Hg | P | N.D. | <1000 | P |
| | | Pb | P | N.D. | <1000 | P |
| | | PBBs | D | N.D. | <1000 | P |
| | | PBDEs | D | N.D. | <1000 | P |
| | | HBCDD | D | N.D. | <1000 | P |
| | | DEHP | D | N.D. | <1000 | P |
| | | DBP | D | N.D. | <1000 | P |
| BBP | D | N.D. | <1000 | P | | |

| SAMPLE NO. | COMPONENTS | Item | Results of EDXRF (P/F/D) | Results of testing(mg/kg) | Chemical testing limit (mg/kg) | Conclusion (P/F) |
|------------|---------------|-------|--------------------------|---------------------------|--------------------------------|------------------|
| 13 | IC | Cd | P | N.D. | <100 | P |
| | | Cr | P | N.D. | <1000 | P |
| | | Hg | P | N.D. | <1000 | P |
| | | Pb | P | N.D. | <1000 | P |
| | | PBBs | D | N.D. | <1000 | P |
| | | PBDEs | D | N.D. | <1000 | P |
| | | HBCDD | D | N.D. | <1000 | P |
| | | DEHP | D | N.D. | <1000 | P |
| | | DBP | D | N.D. | <1000 | P |
| 14 | Soldering tin | Cd | P | N.D. | <100 | P |
| | | Cr | P | N.D. | <1000 | P |
| | | Hg | P | N.D. | <1000 | P |
| | | Pb | P | N.D. | <1000 | P |
| | | PBBs | D | / | <1000 | N.A. |
| | | PBDEs | D | / | <1000 | N.A. |
| | | HBCDD | D | / | <1000 | N.A. |
| | | DEHP | D | / | <1000 | N.A. |
| | | DBP | D | / | <1000 | N.A. |
| 15 | Triode | Cd | P | N.D. | <100 | P |
| | | Cr | P | N.D. | <1000 | P |
| | | Hg | P | N.D. | <1000 | P |
| | | Pb | P | N.D. | <1000 | P |
| | | PBBs | D | N.D. | <1000 | P |
| | | PBDEs | D | N.D. | <1000 | P |
| | | HBCDD | D | N.D. | <1000 | P |
| | | DEHP | D | N.D. | <1000 | P |
| | | DBP | D | N.D. | <1000 | P |
| 16 | Solar panel | Cd | P | N.D. | <100 | P |
| | | Cr | P | N.D. | <1000 | P |
| | | Hg | P | N.D. | <1000 | P |
| | | Pb | P | N.D. | <1000 | P |
| | | PBBs | D | N.D. | <1000 | P |
| | | PBDEs | D | N.D. | <1000 | P |
| | | HBCDD | D | N.D. | <1000 | P |
| | | DEHP | D | N.D. | <1000 | P |
| | | DBP | D | N.D. | <1000 | P |
| BBP | D | N.D. | <1000 | P | | |

| SAMPLE NO. | COMPONENTS | Item | Results of EDXRF (P/F/D) | Results of testing(mg/kg) | Chemical testing limit (mg/kg) | Conclusion (P/F) |
|------------|--------------------------|-------|--------------------------|---------------------------|--------------------------------|------------------|
| 17 | Other metal accessible | Cd | P | N.D. | <100 | P |
| | | Cr | P | N.D. | <1000 | P |
| | | Hg | P | N.D. | <1000 | P |
| | | Pb | P | N.D. | <1000 | P |
| | | PBBs | D | N.D. | <1000 | P |
| | | PBDEs | D | N.D. | <1000 | P |
| | | HBCDD | D | N.D. | <1000 | P |
| | | DEHP | D | N.D. | <1000 | P |
| | | DBP | D | N.D. | <1000 | P |
| 18 | Other Plastic accessible | Cd | P | N.D. | <100 | P |
| | | Cr | P | N.D. | <1000 | P |
| | | Hg | P | N.D. | <1000 | P |
| | | Pb | P | N.D. | <1000 | P |
| | | PBBs | D | N.D. | <1000 | P |
| | | PBDEs | D | N.D. | <1000 | P |
| | | HBCDD | D | N.D. | <1000 | P |
| | | DEHP | D | N.D. | <1000 | P |
| | | DBP | D | N.D. | <1000 | P |
| | | BBP | D | N.D. | <1000 | P |

Note:

(1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg


(3) N.A. = Not Analyzed

(4) Negative = the concentration of Hexavalent Chromium extracted from 50cm² sample is less than the detection limit.

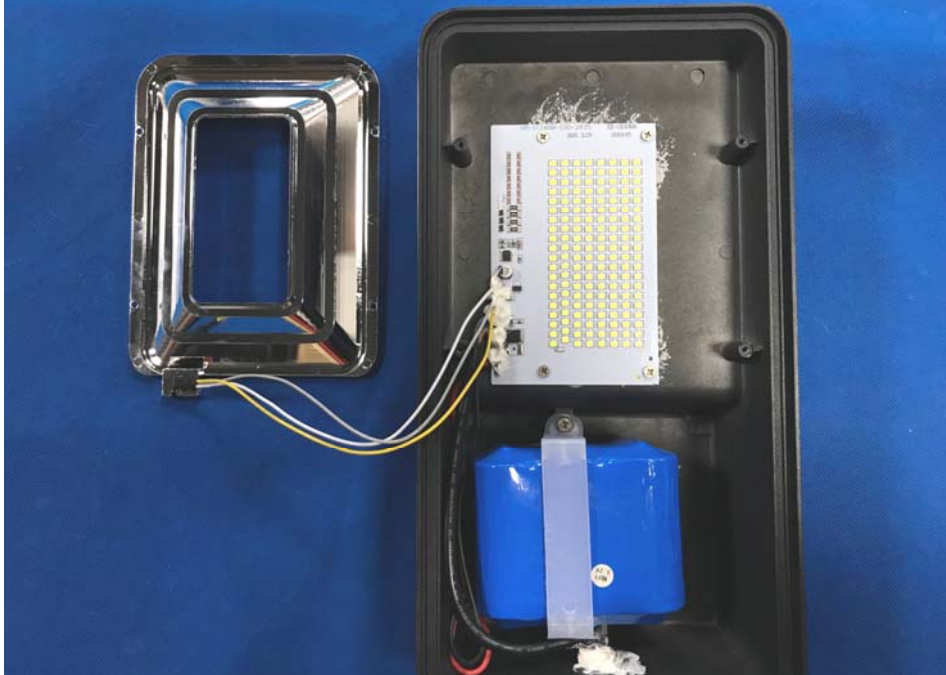
Appendix 1

Photo documentation

| | |
|--|---|
| <p>Photo 1</p> <p>View:</p> <p><input checked="" type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right side</p> <p><input type="checkbox"/> Left side</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p> <p><input type="checkbox"/> Internal</p> |  |
|--|---|

| | |
|--|--|
| <p>Photo 2</p> <p>View:</p> <p><input checked="" type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right side</p> <p><input type="checkbox"/> Left side</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p> <p><input type="checkbox"/> Internal</p> |  |
|--|--|

| | |
|--|---|
| <p>Photo 3</p> <p>View:</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right side</p> <p><input type="checkbox"/> Left side</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p> <p><input checked="" type="checkbox"/> Internal</p> |  |
|--|---|

| | |
|--|--|
| <p>Photo 4</p> <p>View:</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right side</p> <p><input type="checkbox"/> Left side</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p> <p><input checked="" type="checkbox"/> Internal</p> |  |
|--|--|



--END.--