



# CE RoHS TEST REPORT

For

COB DOWN LIGHT

Model No.: VT-1005, VT-1111, VT-2646, VT-1133RD, VT-1133SQ, VT-1123RD,  
VT-1123SQ, VT-1100

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 : J02.06.0195R

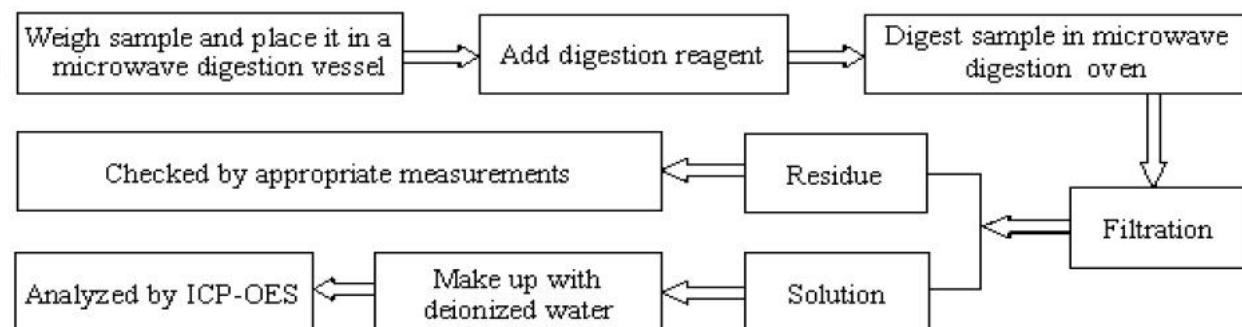
Issued Date : July 11, 2017

Date of Report : July 11, 2017

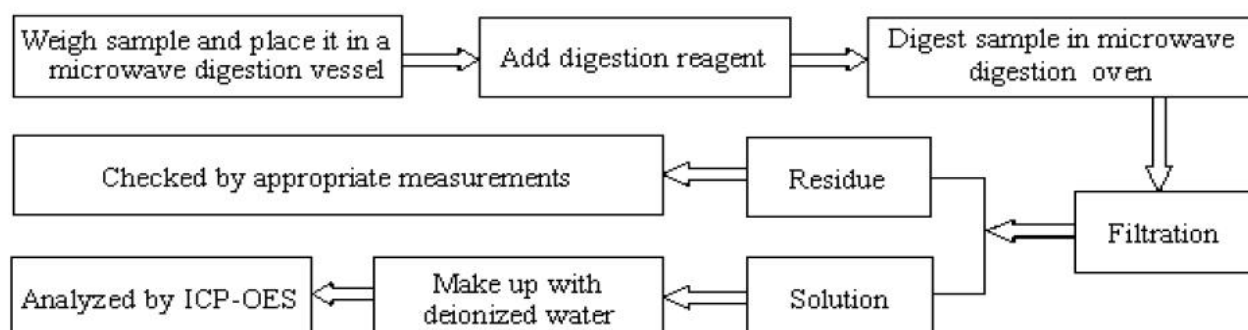
## Note:

1. The test data and result is based on the tested sample only.
2. Please verify information in the report on GST web: [www.gstslab.com](http://www.gstslab.com) through report number.
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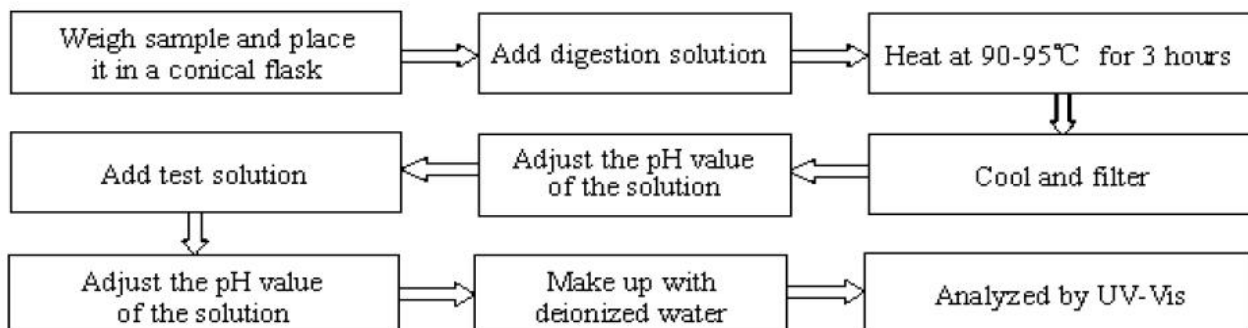
### 1. Lead(Pb), Cadmium(Cd)



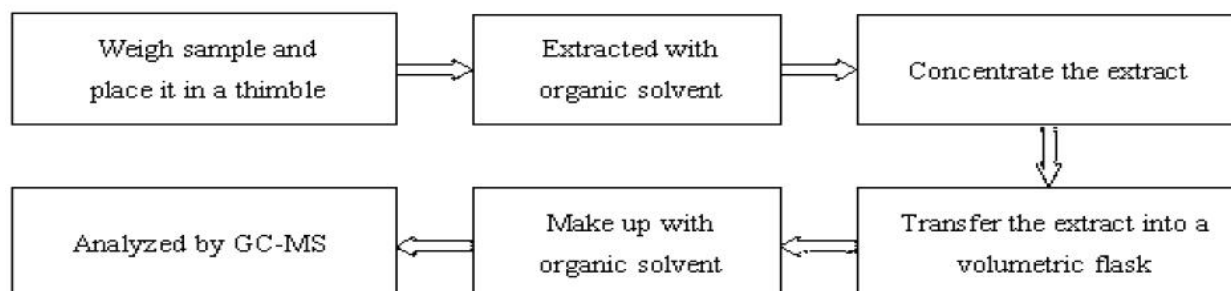
### 2. Mercury(Hg)



### 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            |

|                   |   |                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Result</b>     | : | <b>Pass</b>                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Conclusion</b> | : | An independent evaluation on the above-mentioned product(s) has been conducted pursuant to 2011/65/EU 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. |



## Test Data Summary

| SAMP<br>LE NO. | COMPONENTS | Item  | Results of<br>EDXRF<br>(P/F/D) | Results of<br>testing<br>(mg/kg) | Chemical<br>testing<br>limit<br>(mg/kg) | Conclusio<br>n<br>(P/F) |
|----------------|------------|-------|--------------------------------|----------------------------------|-----------------------------------------|-------------------------|
| 1              | Metal body | 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                     |
| 2              | Input 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                       |
|                |            | BBP   | D                              | N.D.                             | <1000                                   | P                       |
| 3              | 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                       |
| 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          | Heat sink      | 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              |
| 6          | Cord anchorage | 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                |
| 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          | LED 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                |

| SAMPLE NO. | COMPONENTS    | Item  | Results of EDXRF (P/F/D) | Results of testing (mg/kg) | Chemical testing limit (mg/kg) | Conclusion (P/F) |
|------------|---------------|-------|--------------------------|----------------------------|--------------------------------|------------------|
| 9          | 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              |
|            |               | BBP   | D                        | /                          | <1000                          | N/A              |
| 10         | Painting      | 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                |
| 11         | LED driver    | 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 50cm<sup>2</sup> sample is less than the detection



## 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 type="checkbox"/> Front</p> <p><input checked="" 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> |  |

Photo 3

View:

- ☐ Front
- ☐ Rear
- ☐ Right side
- ☐ Left side
- ☐ Top
- ☐ Bottom
- ☒ Internal



---END---