**RoHS Screening Analysis Report**

Number : TWNC00363457S1

Applicant: Cactus Technologies Ltd

Suite C, 15/F, Captial Trade Center,  
62 Tsun Yip Street, Kwun Tong,  
Kowloon, Hong Kong

Date : Apr 10, 2014

This is to supersede report No. TWNC00363457 dated Apr 01, 2014

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**Sample Description:**

One (1) group of submitted samples said to be:

**Sample Description** : Industrial grade half-slim

**Style/Item No.** : KDxxxGF(I)-900SM3

- the symbol of xxx can be 0 - 9 or blank to indicate the capacity of the drives.
- (I) is to represent the extended temperature version (-45°C to +90°C)

**Country of Origin** : Taiwan

**Date Sample Received** : Mar 11, 2014

**Date Test Started** : Mar 13, 2014

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**Test Conducted:**

As requested by the applicant, for details please refer to attached pages.

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**Conclusion:**

<table>
<thead>
<tr>
<th>Tested Samples</th>
<th>Standard</th>
<th>Result</th>
</tr>
</thead>
</table>

**Remark:**

As requested by the applicant, only components shown in this report were screened by XRF spectroscopy for 2011/65/EU. Other components were not screened in this report.

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Authorized by:

On Behalf of Intertek Testing Services Taiwan Limited

K. Y. Liang  
Director
RoHS Screening Analysis Report

Test Conducted

XRF Screening Test:

Contents of cadmium (Cd), lead (Pb), mercury (Hg), chromium (Cr) and bromine (Br) were measured by XRF spectroscopy. The further wet chemical tests will be conducted if necessary.

Test Result Summary:

<table>
<thead>
<tr>
<th>Screened Component</th>
<th>XRF Screen Test</th>
<th>Wet Chemical Test</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Element</td>
<td>Result (ppm)</td>
</tr>
<tr>
<td>(1) Colorful plastic sticker</td>
<td>Cd</td>
<td>ND</td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>ND</td>
</tr>
<tr>
<td></td>
<td>Hg</td>
<td>ND</td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>ND</td>
</tr>
<tr>
<td></td>
<td>Br</td>
<td>ND</td>
</tr>
<tr>
<td>(2) Connector – black plastic socket</td>
<td>Cd</td>
<td>ND</td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>ND</td>
</tr>
<tr>
<td></td>
<td>Hg</td>
<td>ND</td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>ND</td>
</tr>
<tr>
<td></td>
<td>Br</td>
<td>ND</td>
</tr>
<tr>
<td>(3) Connector – golden/silvery metal pin</td>
<td>Cd</td>
<td>ND</td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>ND</td>
</tr>
<tr>
<td></td>
<td>Hg</td>
<td>ND</td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>211</td>
</tr>
<tr>
<td></td>
<td>Br</td>
<td>NA</td>
</tr>
<tr>
<td>(4) PCBA (connector was excluded)(#)</td>
<td>Cd</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td>Pb</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td>Hg</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td>Cr</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td>Br</td>
<td>--</td>
</tr>
</tbody>
</table>

Remarks: ppm = Parts per million = mg/kg
ND = Not detected and pass, the screened sample is found to be under detection limit of table II.
NA = Not applicable
#1 = Samples were ground and randomly selected for test.
#2 = As per applicant’s request, only spot test was conducted

Responsibility of Chemist: Ryan Lin/ Pelny Hsiao/ Vico Lin

Date Sample Received : Mar 11, 2014
Test Period : Mar 13, 2014 to Apr 08, 2014
RoHS Screening Analysis Report

Test Conducted

Table I: XRF screening limits in mg/kg for regulated elements in various materials.

<table>
<thead>
<tr>
<th>Element</th>
<th>Polymer Materials</th>
<th>Metallic Materials</th>
<th>Composite Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cd</td>
<td>BL ≤ 70 &lt; X &lt; 130 ≤ OL</td>
<td>BL ≤ 70 &lt; X &lt; 130 ≤ OL</td>
<td>BL ≤ 70 &lt; X &lt; 150 ≤ OL</td>
</tr>
<tr>
<td>Pb</td>
<td>BL ≤ 700 &lt; X &lt; 1300 ≤ OL</td>
<td>BL ≤ 700 &lt; X &lt; 1300 ≤ OL</td>
<td>BL ≤ 500 &lt; X &lt; 1500 ≤ OL</td>
</tr>
<tr>
<td>Hg</td>
<td>BL ≤ 700 &lt; X &lt; 1300 ≤ OL</td>
<td>BL ≤ 700 &lt; X &lt; 1300 ≤ OL</td>
<td>BL ≤ 500 &lt; X &lt; 1500 ≤ OL</td>
</tr>
<tr>
<td>Cr</td>
<td>BL ≤ 700 &lt; X</td>
<td>BL ≤ 700 &lt; X</td>
<td>BL ≤ 500 &lt; X</td>
</tr>
<tr>
<td>Br</td>
<td>BL ≤ 300 &lt; X</td>
<td>Not Applicable</td>
<td>BL ≤ 250 &lt; X</td>
</tr>
</tbody>
</table>

Remarks: mg/kg = Milligram per kilogram = ppm
BL = Below Limit
X = Inconclusive result
OL = Over Limit

Table II: Estimated detection limits in mg/kg for regulated elements in various matrices.

<table>
<thead>
<tr>
<th>Element</th>
<th>Polymer Materials</th>
<th>Metallic Materials</th>
<th>Composite Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cd</td>
<td>50</td>
<td>70</td>
<td>70</td>
</tr>
<tr>
<td>Pb</td>
<td>100</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>Hg</td>
<td>100</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>Cr</td>
<td>100</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>Br</td>
<td>200</td>
<td>Not Applicable</td>
<td>200</td>
</tr>
</tbody>
</table>

Disclaimers:
The numerical test data of this XRF screening report is for reference purposes only due to the data variation incurred from various factors as described in next paragraph. 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 results shown in this XRF screening 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.
RoHS Screening Analysis Report

Chemical Test Method

<table>
<thead>
<tr>
<th>Test Item</th>
<th>Test Method</th>
<th>Reporting Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium (Cd) content</td>
<td>With reference to IEC 62321-5: 2013, by microwave or acid digestion and determined by ICP-OES.</td>
<td>2 ppm</td>
</tr>
<tr>
<td>Lead (Pb) content</td>
<td>With reference to IEC 62321-5: 2013, by microwave or acid digestion and determined by ICP-OES.</td>
<td>2 ppm</td>
</tr>
<tr>
<td>Mercury (Hg) content</td>
<td>With reference to IEC 62321-4: 2013, by microwave or acid digestion and determined by ICP-OES.</td>
<td>2 ppm</td>
</tr>
<tr>
<td>Chromium VI (Cr^{6+}) content (for non-metal)</td>
<td>With reference to IEC 62321: 2008, by alkaline digestion and determined by UV-Vis Spectrophotometer.</td>
<td>1 ppm</td>
</tr>
<tr>
<td>Chromium VI (Cr^{6+}) content (for metal)</td>
<td>With reference to IEC 62321: 2008, by spot test.</td>
<td>1 ppm</td>
</tr>
<tr>
<td>Polybrominated Biphenyls (PBBs)</td>
<td>With reference to IEC 62321: 2008, by solvent extraction and determined by GC-MS and further HPLC-DAD confirmation when necessary.</td>
<td>5 ppm</td>
</tr>
<tr>
<td>Polybrominated Diphenyl Ethers (PBDEs)</td>
<td>With reference to IEC 62321: 2008, by solvent extraction and determined by GC-MS and further HPLC-DAD confirmation when necessary.</td>
<td>5 ppm</td>
</tr>
</tbody>
</table>

Remark: Reporting Limit = Quantitation limit of analyte in sample

RoHS Requirement:

<table>
<thead>
<tr>
<th>Restricted Substances</th>
<th>Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium (Cd)</td>
<td>0.01% (100 ppm)</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>0.1% (1000 ppm)</td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td>0.1% (1000 ppm)</td>
</tr>
<tr>
<td>Chromium (VI) (Cr^{6+})</td>
<td>0.1% (1000 ppm)</td>
</tr>
<tr>
<td>Polybrominated Biphenyls (PBBs)</td>
<td>0.1% (1000 ppm)</td>
</tr>
<tr>
<td>Polybrominated Diphenyl Ethers (PBDEs)</td>
<td>0.1% (1000 ppm)</td>
</tr>
</tbody>
</table>

The above limits were quoted from Annex II of 2011/65/EU for homogeneous material.
End of Report

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek’s provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct.


TERMS AND CONDITIONS OF BUSINESS

1. Intertek Testing Services Taiwan Ltd. (hereinafter "the Company") agrees to provide its services in accordance with and subject to the terms and conditions herein contained (hereinafter "the Conditions"). The Conditions may only be modified by a variation expressed in writing and accepted on behalf of the Company by a director and no other action on the part of the Company or its employees or agents shall be construed as an acceptance of any other terms and conditions.

2. The Company acts for the person or body from whom the request to provide its services has originated (hereinafter "the Principal"). No other party is entitled to give instructions to the Company unless agreed by the Company.

3. All rights (including but not limited to copyright) in any test reports, surveys, certificates of inspection or other material produced by the Company in the course of providing its services shall remain vested in the Company. The Principal shall not reproduce or make copies, publish or disclose the contents of any such material or extracts therefrom to any third party without the Company's prior written consent, which may be refused at its discretion. The Principal further undertakes that it shall not publish or otherwise use any information that may be acquired relating to the Company's activities.

4. 4.1 The Company undertakes to exercise due care and skill in the performance of its services and accepts responsibility only where such skill and care is not exercised.

4. 2. The Company is not responsible for any claims for loss, damage or expense of whatsoever nature and however arising in respect of any breach of contract and/or any failure to exercise due care and skill and the Company shall be in no circumstances liable for any loss or damage caused by delay in performance or non-performance of any of its services where the same is occasioned by any cause whatsoever that is beyond the Company's control including but not limited to war, civil disturbance, requisitioning, governmental or parliamentary restriction, prohibition or enactment of any kind, import or export regulations, strike or trade dispute (whether involving its own employees or those of any other person), difficulties in obtaining workmen or materials, breakdown of machinery, fire or accident. Should any such event occur the Company may cancel or suspend any contract for the provision of services without incurring any liability whatsoever.

4. 3. The Company shall not be liable for any loss or damage caused by delay in performance or non-performance of any of its services where the same is occasioned by any cause whatsoever that is beyond the Company's control including but not limited to war, civil disturbance, requisitioning, governmental or parliamentary restriction, prohibition or enactment of any kind, import or export regulations, strike or trade dispute (whether involving its own employees or those of any other person), difficulties in obtaining workmen or materials, breakdown of machinery, fire or accident. Should any such event occur the Company may cancel or suspend any contract for the provision of services without incurring any liability whatsoever.

4. 4. The Principal will not be liable to the Principal for any loss or damage whatsoever sustained by the Principal as a result of any failure by the Company to comply with any time estimate given by the Company relating to the provision of its services. [See clause 9.1] [See clause 9.2]

4. 5. The Principal acknowledges that samples may be damaged or destroyed in the course of testing carried out by the Company or any of the Company's agents or subcontractors as part of the necessary testing process and the Company shall not in any event be liable for any loss or damage arising from the damage or destruction of the samples subject to testing.

4. 6. In the event that the Principal requests for the return of the samples, the Company shall not be responsible for any repackaging of the samples prior to such return and the Company shall in no circumstances be liable for any loss of or damage caused to any of the samples during or as a result of their shipment to the Principal for the purpose of this Clause 4.

5. 1. Subject to the Principal's instructions as accepted by the Company, the test reports, surveys, certificates of inspection or other material produced by the Company shall contain statements of opinion made with due care within the limitations of the instructions received by the Company. The Company is under no obligation to refer to or report upon any facts or circumstances which are outside the specific instructions received.

5. 2. For pre-shipment inspection or survey of goods, the Company's inspector shall perform the inspection or survey when goods are 100% completed, packed and marked (unless otherwise agreed between the Company and the Principal). Goods for inspection or survey shall not be unpacked in the presence of the Company's inspector and inspection or survey shall, subject to Condition 5.3, take place at the place specified by the Principal.

5. 3. If the Company's inspector finds that it is not suitable for carrying our a proper inspection or survey of goods or where necessary equipment for inspection or survey is not available, the Principal shall at its own expense provide such equipment. The Principal shall not be liable for any loss or damage caused by any inspection carried out by the Company's inspector.

5. 4. Reports, surveys or certificates issued following testing or analysis of samples contain the Company's specific opinion on those samples only but do not express any opinion upon the bulk from which the samples were drawn. If an opinion on the bulk is requested special arrangements in writing must be made in advance with the Company for the inspection and sampling of the bulk. In no circumstances shall the Company be responsible for all costs and expenses incurred in relation thereto.

6. The Company shall be entitled at its discretion to delegate the performance of the whole or any part of the services contracted for with the Principal to any agent or subcontractor.

7. Every officer, employee, agent or subcontractor of the Company shall have the benefit of the limitations of liability and the indemnities contained in the General Conditions. So far as relates to such limitations and indemnities, any contract entered into by the Company is entered into not only in its own behalf but also as agent and trustee for every such person as aforesaid.

8. If the requirements of the Principal necessitate the analysis of samples by the Principal or by any third party the Company will pass on the results of the analysis but without responsibility for its accuracy. Where the Company is only able to witness an analysis by the Principal or by any third party the Company will provide confirmation, if such be the case, that a correct sample has been analysed but will not otherwise be responsible for the accuracy of such analysis.

8. 1. The Principal will ensure that instructions to the Company are given in due time and are accompanied by sufficient information to enable the required services to be performed effectively.

8. 2. Accept that documents reflecting arrangements or agreements made between the Principal and any third party, or any third party documents such as copies of contracts of sale, invoices, letters of credit, bills of lading, etc. are - if received by the Company considered to be for information only, without extending or restricting the services to be provided or obligations accepted by the Company.

8. 3. Provide all necessary access for the Company's representatives to enable the required services to be performed effectively.

8. 4. Supply, if required, any special equipment and personnel necessary for the performance of the required services.

8. 5. Ensure that all necessary measures are taken for safety and security of working conditions, sites and installations during the performance of the required services.
9.6 take all necessary steps to eliminate or remedy any obstruction to or interruptions in the performance of the required services and repack all inspected goods immediately after any inspection or survey of them.
9.7 inform the Company in advance of any known hazards or dangers, actual or potential, associated with any request for the provision of services by the Company including but not limited to the presence or risk of radiation, toxic or noxious or explosive elements or materials, environmental pollution or poisons.
10. The Principal shall guarantee, hold harmless and indemnify the Company and its officers, employees, agents or subcontractors against:
10.1 all claims made by any third party for any loss, damage or expense of whatsoever nature and howsoever arising relating to the performance, purported performance or non-performance of any of its services to the extent that the aggregate of any such claims relating to any one service exceeds the limit mentioned in Condition 4.2.
10.2 any loss or damage suffered by the Company as a result of the provision of services by the Company to the Principal otherwise than resulting from the Company's own error, negligence or wilful default.
11.1 The Principal will punctually pay the Company immediately upon presentation of the relevant invoice or within such other period as may have been agreed in writing by the Company all charges rendered by the Company failing which interest will become due at the rate of 1.5 per cent per month from the date of invoice until payment. The Principal further agrees and undertakes to reimburse the Company all disbursements reasonably incurred in connection with the provision of its services.
11.2 The Principal shall not be entitled to retain or defer payment of any sums due to the Company on account of any dispute, cross claim or set-off which it may allege against the Company.
11.3 In the event of any suspension of payment arrangement with creditors, bankruptcy, insolvency, receivership or cessation of business or failure of the Principal to pay part or all of any sums owing to the Company, the Company shall be entitled to suspend all further performance of its services and withhold the issue of any test report, survey, certificate of inspection or other material requested forthwith and without liability until payment of all sums owing to the Company together with interest thereon is made.
12. Without prejudice to any rights the Company may have at law or under the Conditions, the Company has the following rights in the event of non-payment of sums owing to the Company as set out below:
12.1 The Company has a general and particular lien over all samples delivered to be tested for all claims and sums owing by the Principal to the Company under any contract whatsoever and in any other way whatsoever.
12.2 During the currency of any such lien the Company is entitled to be paid reasonable storage charges for samples retained in the Company's custody.
12.3 Without prejudice to the Company's lien and other rights under Conditions 12.1 to 12.2 above, if test, inspection or survey of the goods takes place on the premises of the Company, the Company may give notice to the Principal that the goods (or any part thereof) are ready for collection and the Principal shall collect the same within three (3) calendar days (Saturdays, Sundays and Public Holidays excepted). Upon the expiry of this period, if the goods are not collected by the Principal, at the sole discretion of the Company the goods may be deemed abandoned and/or destroyed.
12.4 Without prejudice to Conditions 12.3 above, the Company shall have the discretion to store the goods (or any of them) at their own premises or elsewhere at the Principal's expense if the Principal has deposited the goods at the Company's premises for the performance of these services and has subsequently failed to collect the said goods.
12.5 The expenses by way of disbursements that the Company may reclaim from the Principal include all reasonable costs incurred by the Company (whether by way of storage, insurance or otherwise) in respect of the goods and it is expressly declared that it shall be reasonable but not mandatory for the Company to effect comprehensive insurance in respect of the goods.
12.6 Without prejudice to the Company's lien and other rights under Conditions 12.1 to 12.5 above the risk and property in the goods shall remain at all times in the Principal.
13. In the event of the Company being prevented by reason of any cause whatsoever outside the Company's control from performing or completing any service for which an order has been given or an agreement made, the Principal will pay to the Company:
13.1 the amount of all abortive expenditure actually made or incurred, and
13.2 a proportion of the agreed fee or commission equal to the proportion (if any) of the service actually carried out,
and the Company shall be relieved of all responsibility whatsoever for the partial or total non-performance of the required service.
14. The Company shall be discharged from all liability to the Principal for all claims for loss, damage or expense unless suit is brought within twelve (12) months after the date of the performance by the Company of the service which gives rise to the claim or in the event of any alleged non-performance within twelve (12) months of the date when such service should have been completed.
15. In the event that any unforeseen additional time or costs are incurred in the course of carrying out any of its services the Company shall be entitled to render additional charges as shall reasonably reflect such additional time and costs incurred.
16. All contracts for provision of services by the Company and the Conditions shall be construed in accordance with and governed by the laws of the ROC and for the purpose of any arbitral or litigation proceedings such contracts shall be deemed to have been made and performed in Taiwan. If any provision contained in the Conditions is and/or becomes invalid, illegal or unenforceable in any respect under the laws of the ROC, the validity, legality and enforceability of the remaining provisions hereof shall not in any way be affected or impaired thereby.
17. Any dispute or claim arising out of or relating to the provision of, or any agreement to provide, services by the Company shall be referred to and determined by arbitration subject to the Company's sole and overriding discretion to commence litigation proceedings in the courts of Taiwan or the courts of any other country as the Company may choose. The parties may agree to the appointment of an arbitrator falling which either party may, after having made a written request to concur in the appointment of an arbitrator, request the ROC Arbitration Association to appoint an arbitrator. The place of arbitration shall be in Taiwan. There shall only be one arbitrator.