

UN 38.3 Test Summary Report

Lithium Cell or Battery Test Summary in Accordance with Section 2.9.4 UN Model Regulations and Sub-section 38.3 of the UN Manual of Tests and Criteria, Part III, subsection 38.3.5

[a] Cell Battery Product
 Tested Type Part #: TL-5113
 Same Type Part #:

[b] **Manufacturer**
 Tadiran Batteries Ltd.
 44 Yitzhak Rabin Blvd,
 Kiryat Ekron,
 Israel 7695001
 T. +972 8 9 44 503
sales@tadiran-batt.com
www.tadiran.com

[d] Unique report ID: 15Q-640

[e] Report date: January 2013

[c] **Test Laboratory**
 Tadiran Batteries Ltd.
 44 Yitzhak Rabin Blvd,
 Kiryat Ekron,
 Israel 7695001
 T. +972 8 9 44 560
aya-d@tadiran-batt.com
www.tadiran.com

Same Type Part Numbers # (all): covers all the TL-5113/xxx part numbers with various contact terminations / harness.

[f] (i) Li-ion Li-metal.

(iv) **Description:** TL-5903 is a primary (non-rechargeable), 3.7V lithium metal battery with vent and can be transported as a lithium metal battery under UN numbers 3090 and 3091. The battery may come with optional suffixes consisting of a "I" followed by one or more letters and a digit. These suffixes indicate different types of finishing to the battery, e.g., TL-5113/S, TL-5113/TP, TL-5113/PT, TL-5113/PT2, TL-5113/T, etc. Tadiran manufactures all cells/batteries under a quality management system as required under this regulation.

(ii) Mass: 21 g

(iii) Watt hour rating or Lithium content: 0.66 g

(v) Cell Battery Product. Model number/Part number: TL-5113

[g] List of Tests Conducted	Result (Pass / Fail / N.A.)	Test record reference
38.3.4.1 T.1: Altitude simulation	Pass	15Q-640
38.3.4.2 T.2: Thermal test	Pass	15Q-640
38.3.4.3 T.3: Vibration	Pass	15Q-640
38.3.4.4 T.4: Shock	Pass	15Q-640
38.3.4.5 T.5: External short circuit	Pass	15Q-640
38.3.4.6 T.6: Impact/Crush (cell only test)	Pass	15Q-935
38.3.4.7 T.7: Overcharge (N.A for Li-metal only)	N.A.	N.A.
38.3.4.8 T.8: Forced discharge (cell only test)	Pass	15Q-640

[h] Battery assembly: Not Applicable. UN38.3.3 (f) UN38.3.3 (g)

[i] Test Reference: UN Manual of Tests and Criteria, Part III, sub-section 38.3. *Fifth revised edition*

[j] Signatory A. Date: 2019.01.01

Name: Aya Daniel

Title: Quality Manager

Signature.

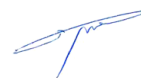



[j] Signatory B. Date: 2019.01.01

Name: Kobi Pinsky

Title: VP Marketing and Sales

Signature.



Important! The above signatory / signatories affirm that this document is a true and correct summary of the original individual tests and test data. The original test data is confidential information available to competent State Authorities with valid identification and only upon their formal request. Disclosure of the original test data to any other entity upon its request will be considered by Tadiran and, should Tadiran consider this request is with merit, may be subject to the prior execution of a nondisclosure agreement.