Collation of
FlexPLI
Inverse Certification Test Results

Revision 1
- disclosing Information on Master Legs and Pass/Fail Ratio -

7th Meeting of Informal Group GTR9 Phase 2
July 3rd, 2013

Oliver Zander

Bundesanstalt für Straßenwesen

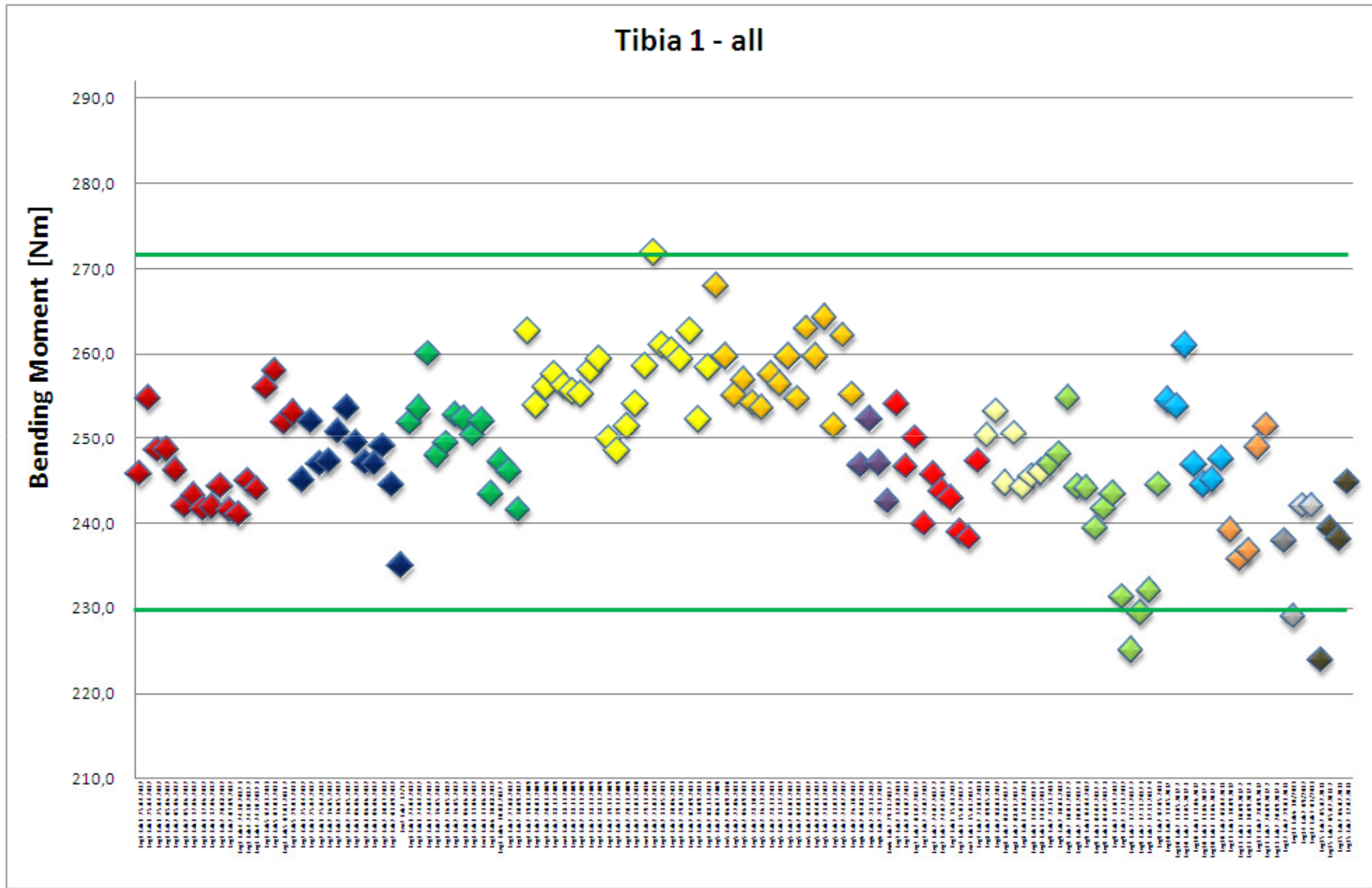**Bundesanstalt für Straßenwesen**

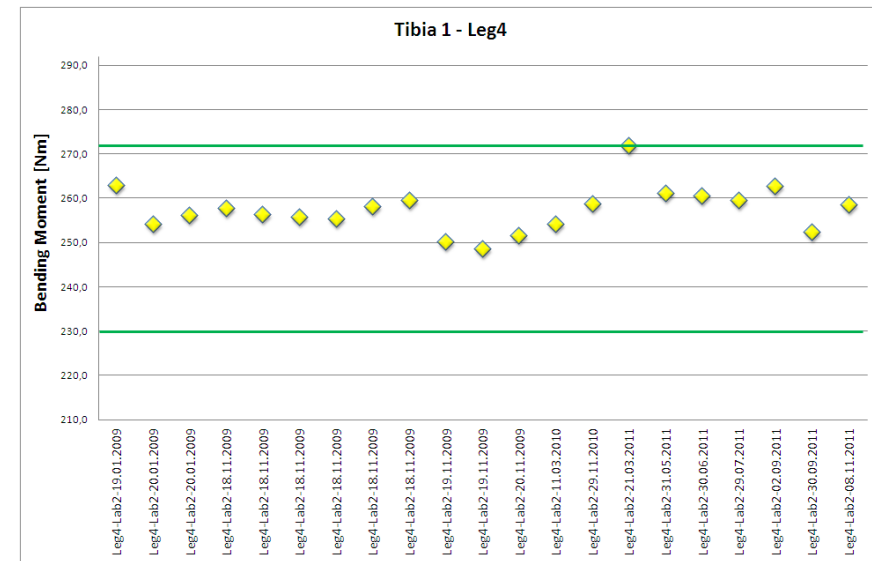**(Federal Highway Research Institute)**

Dataset
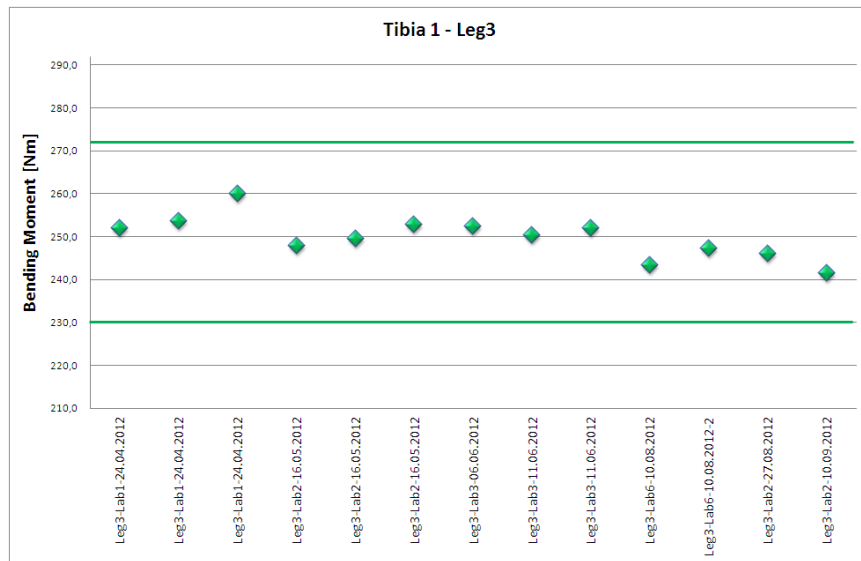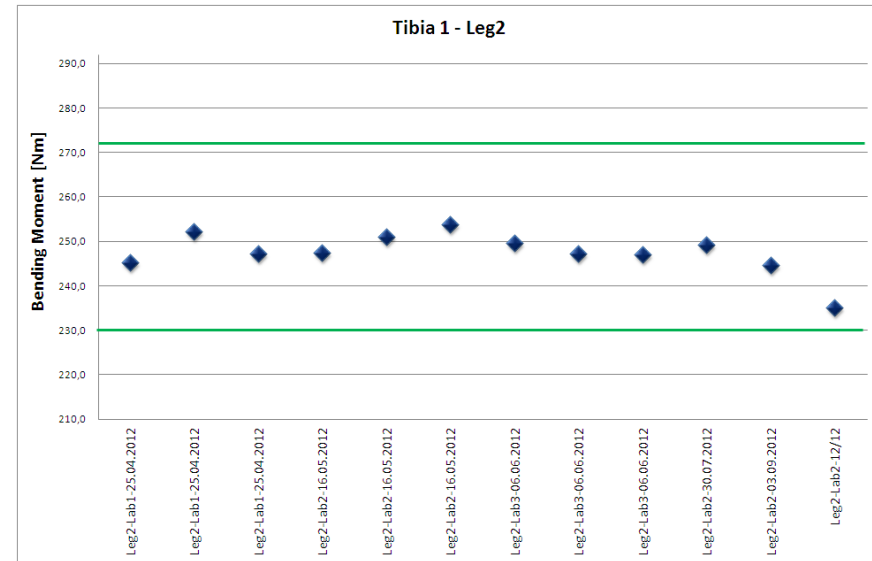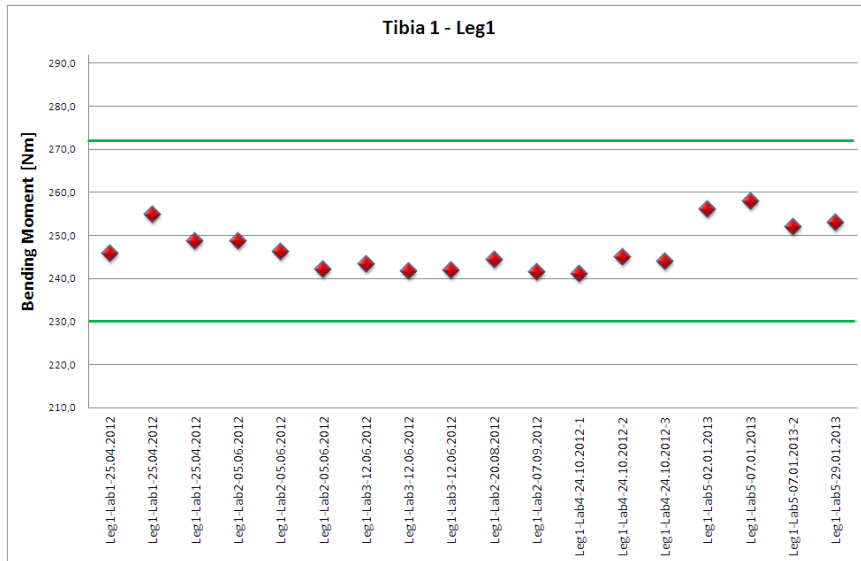
- **15 impactors**

  - ➤ **2 prototypes (leg 4 & leg 5)**
  - ➤ **13 serial production legs**
    - **leg1: Master Leg SN01**
    - **leg 2: Master Leg SN03**
    - **leg 3: Master Leg E-Leg**

- **7 test labs**

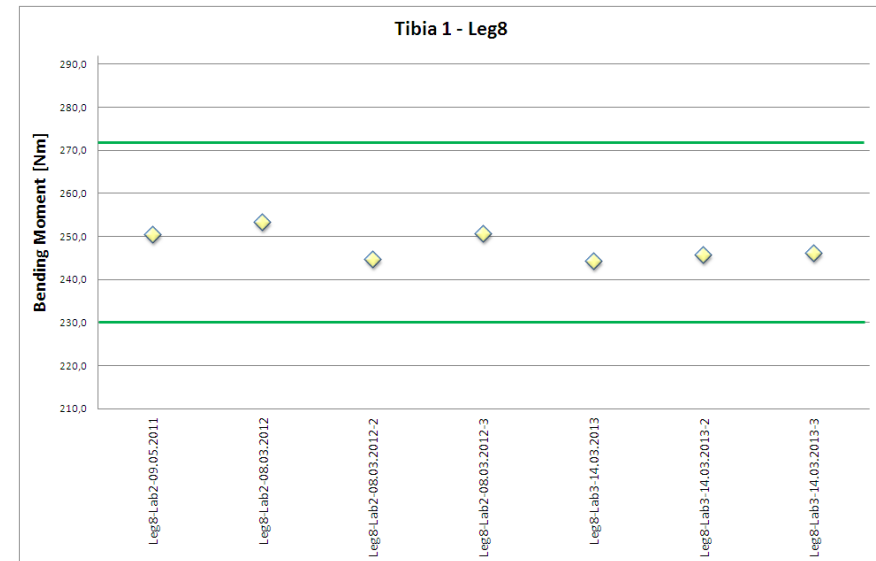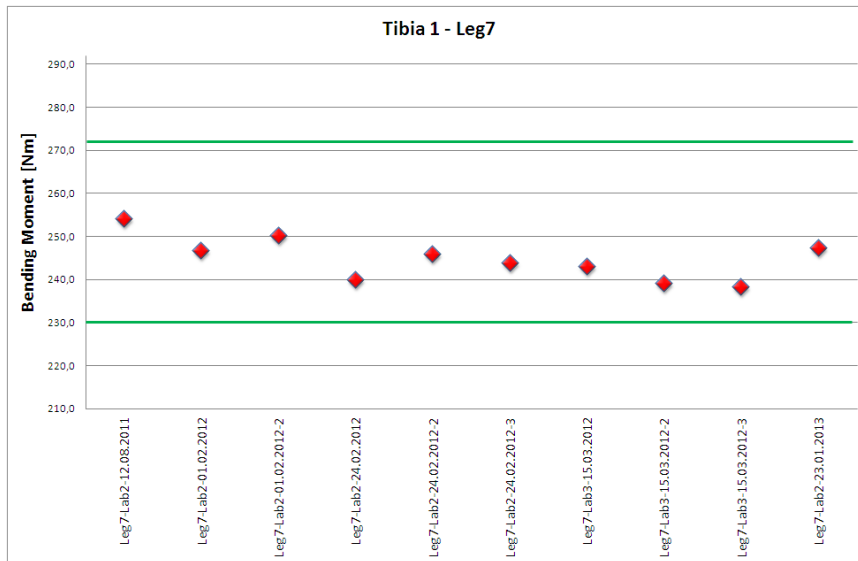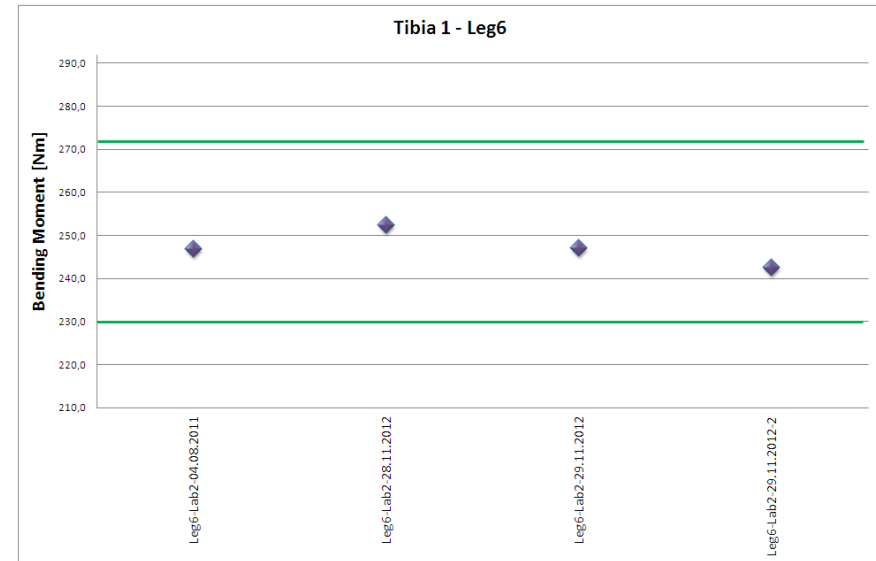- **134 tests**

  - ➤ **37 tests w/ prototypes**
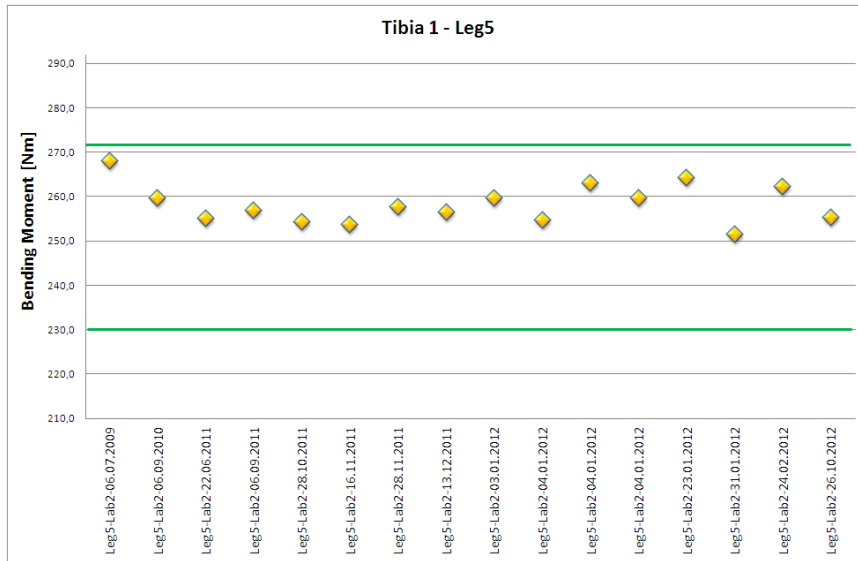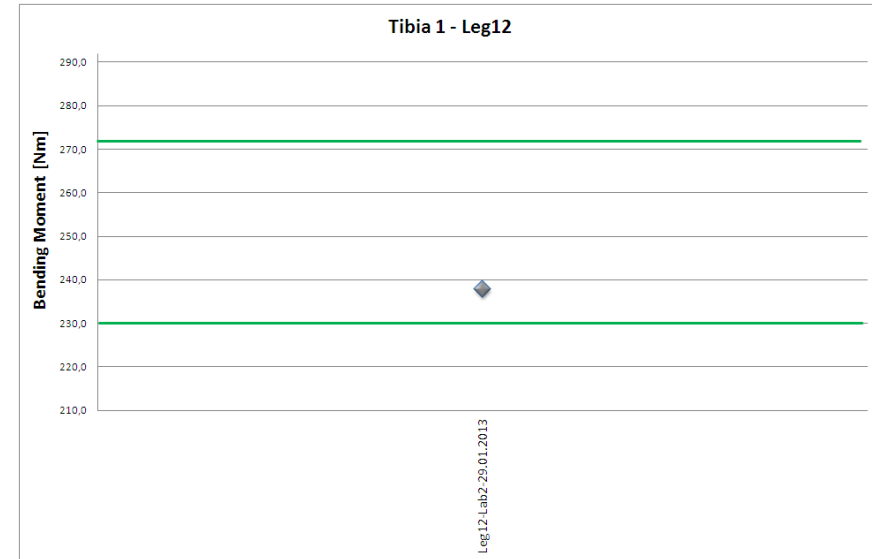 - ➤ **97 tests w/ serial production legs**
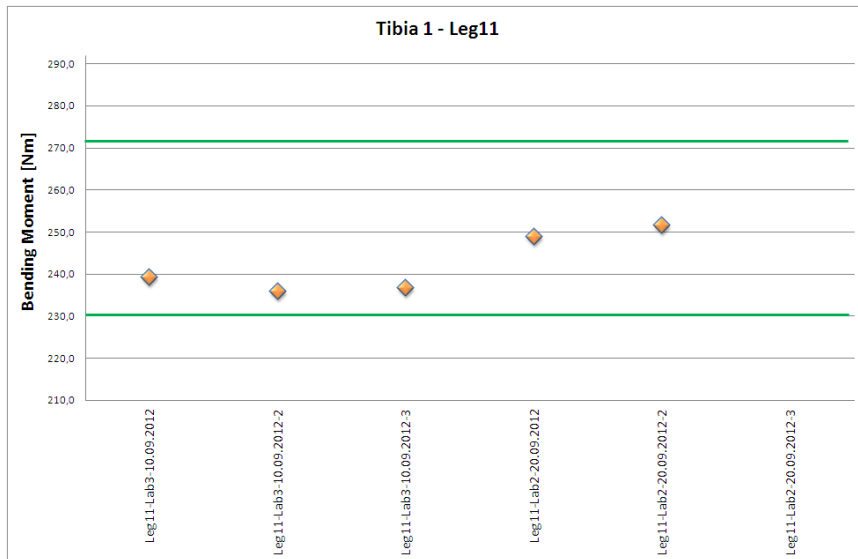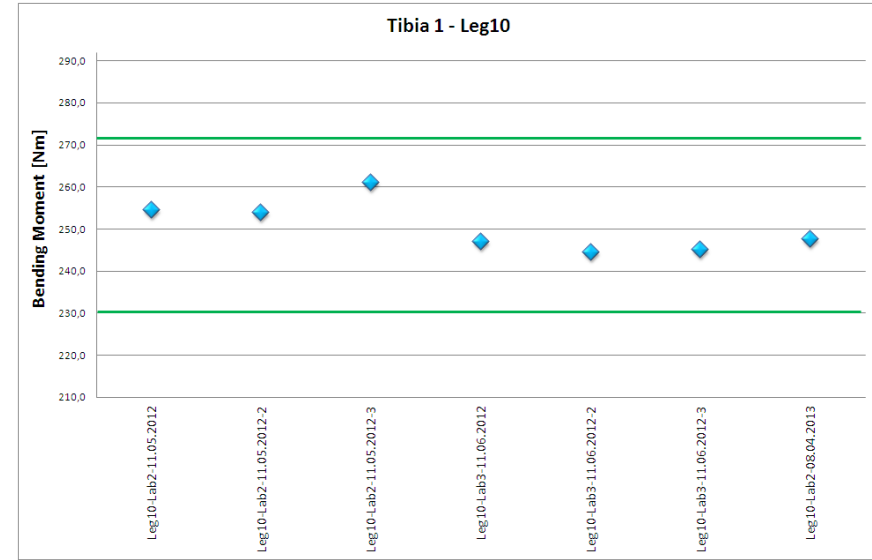
Results Overview - Inverse Tests T1
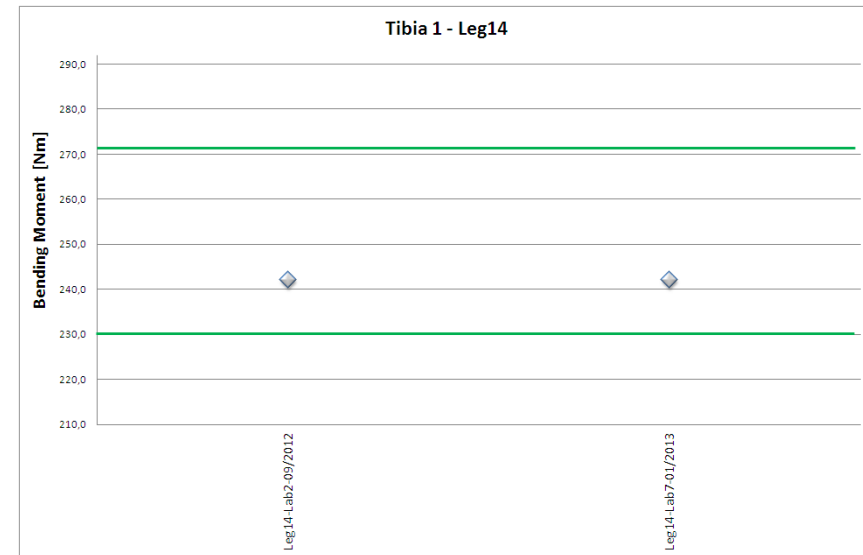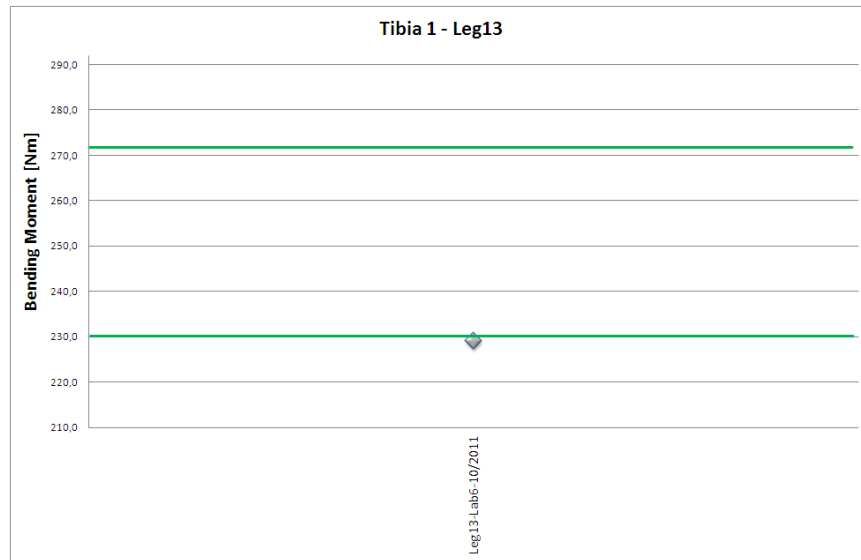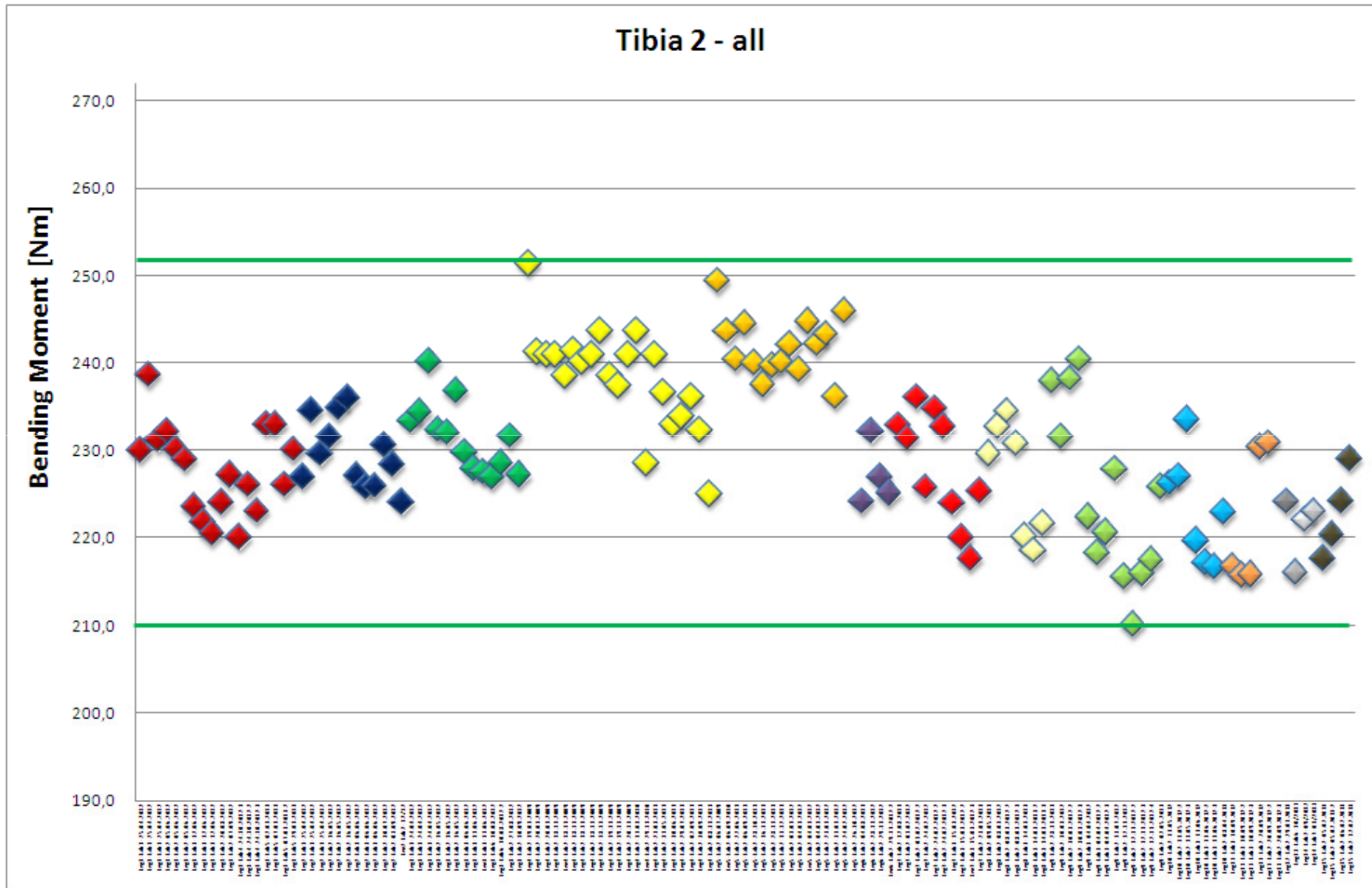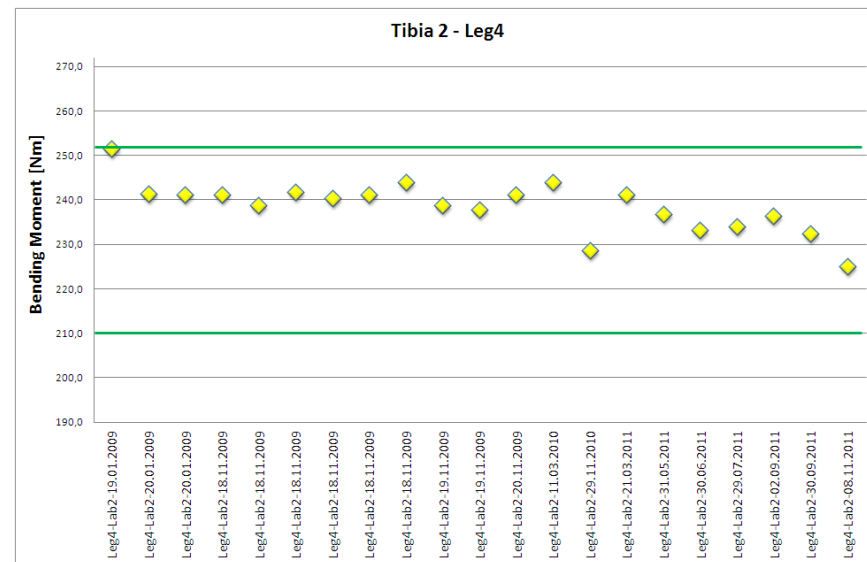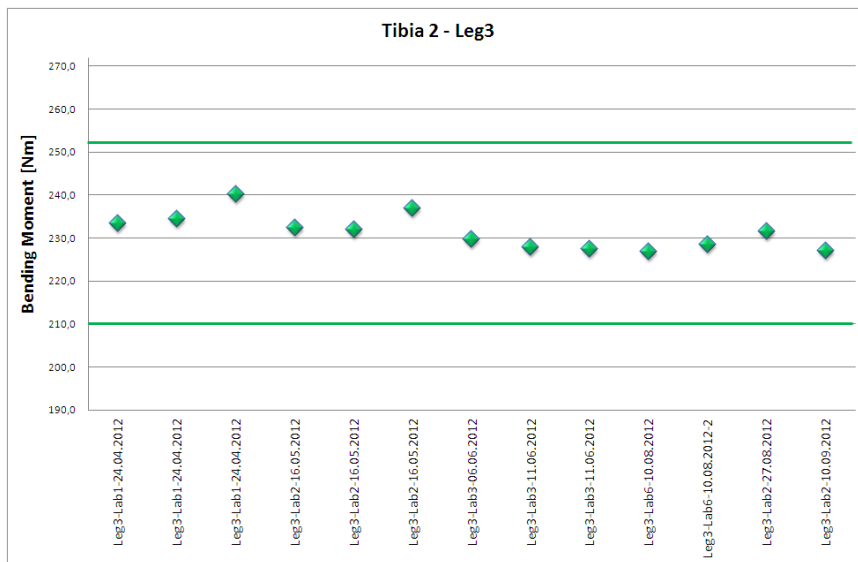
bast

Tibia 1 - all
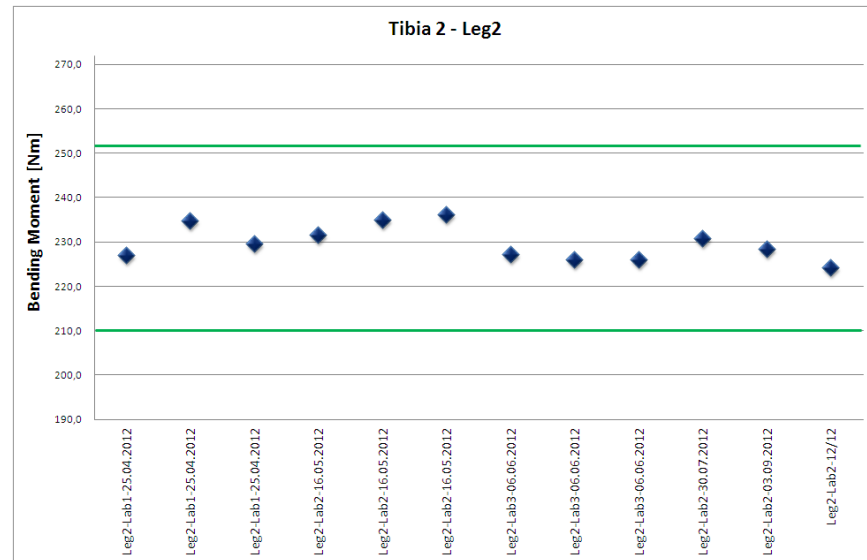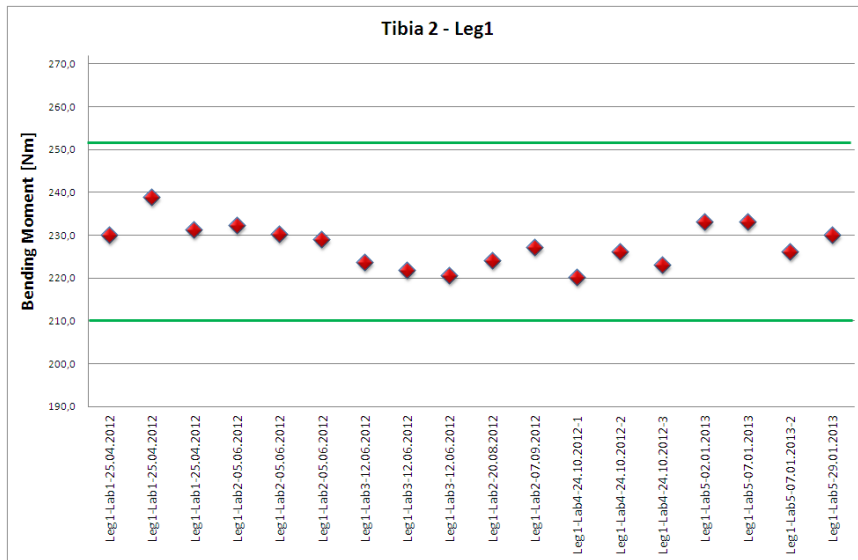
Results Tibia 1 - Inverse Tests

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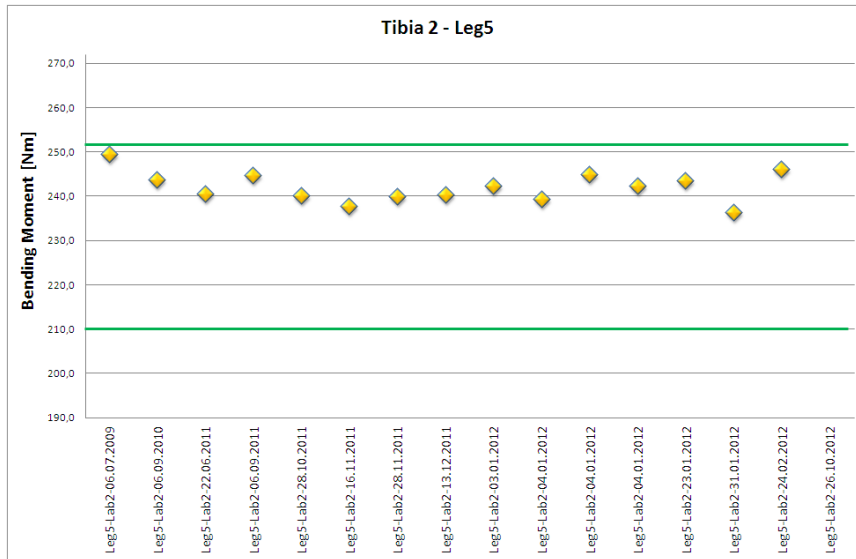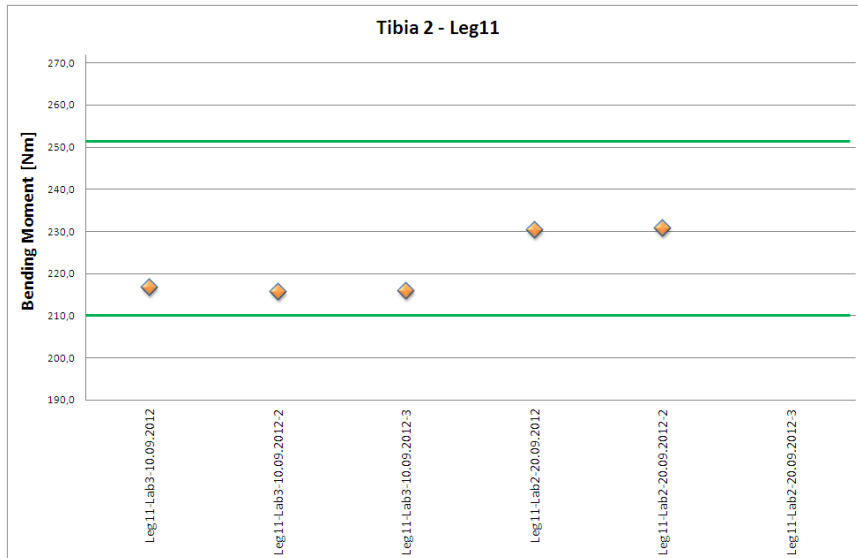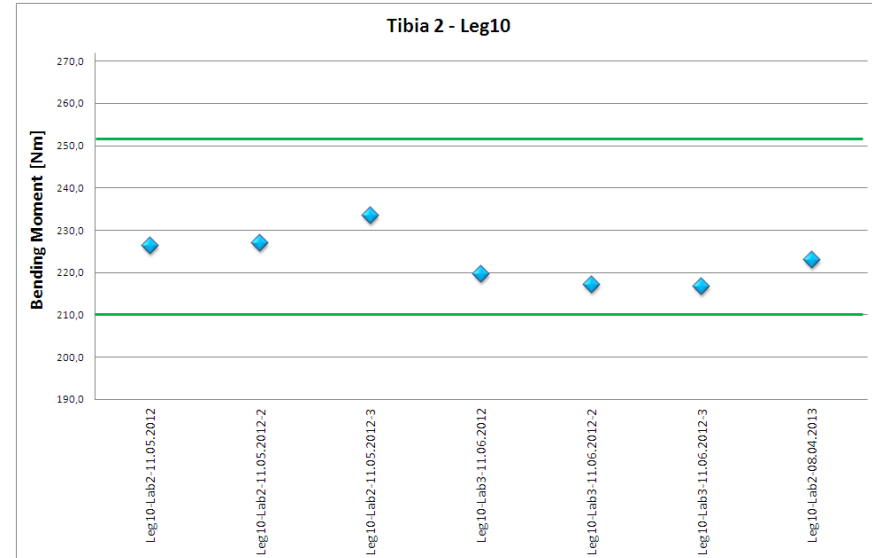# Results Tibia 1 - Inverse Tests

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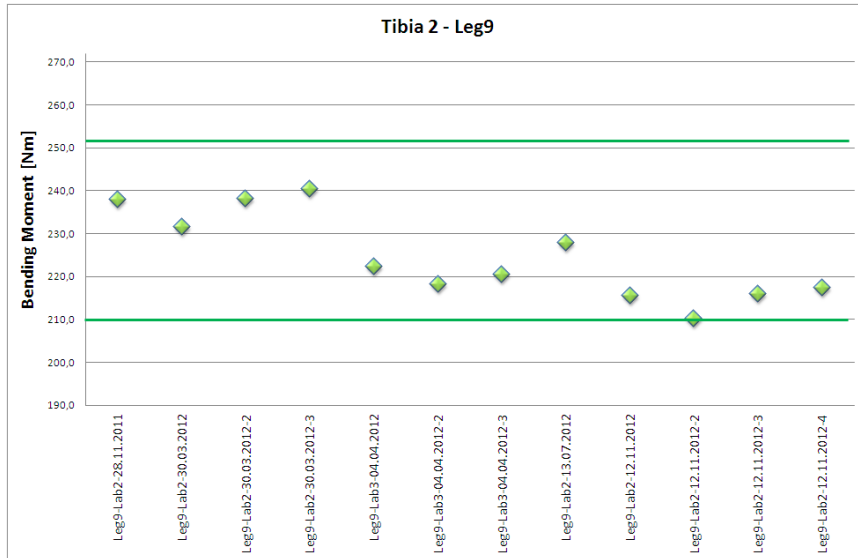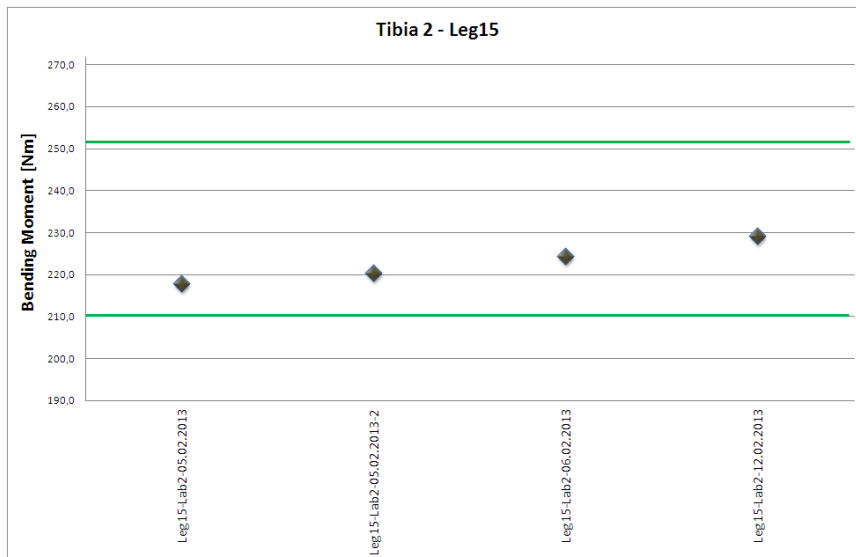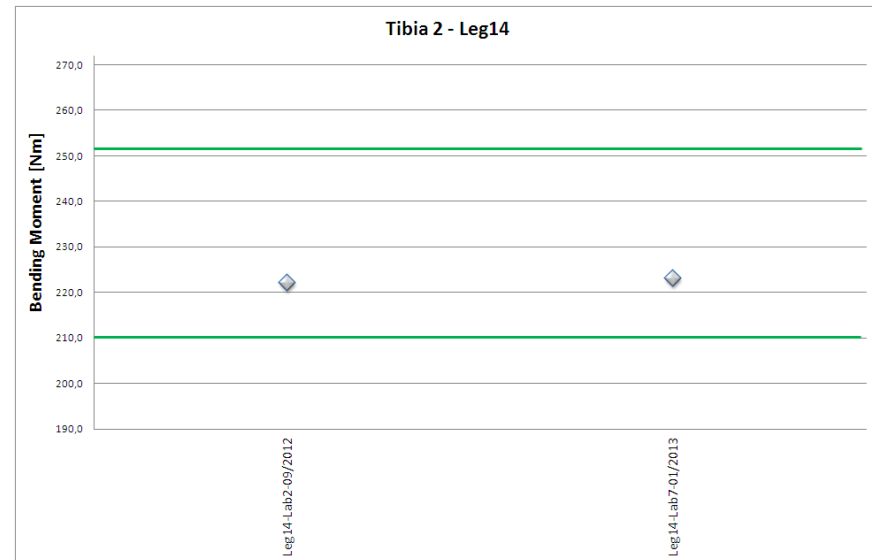
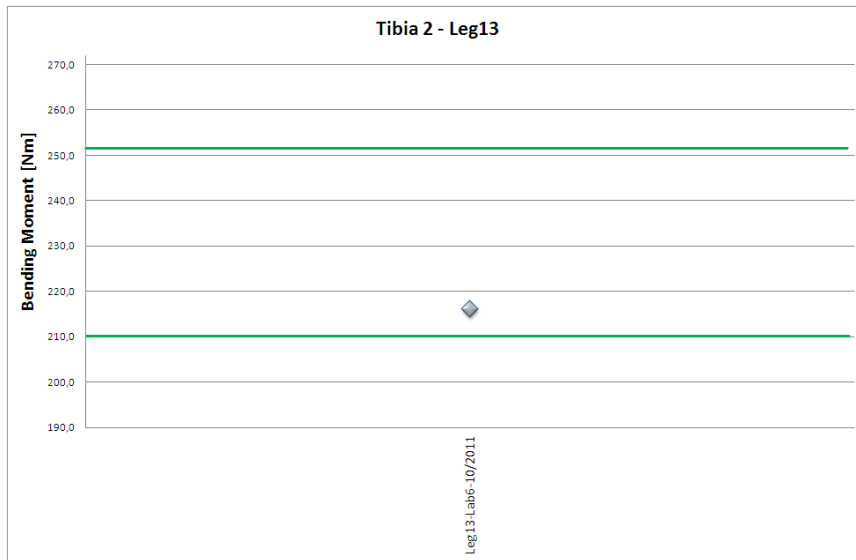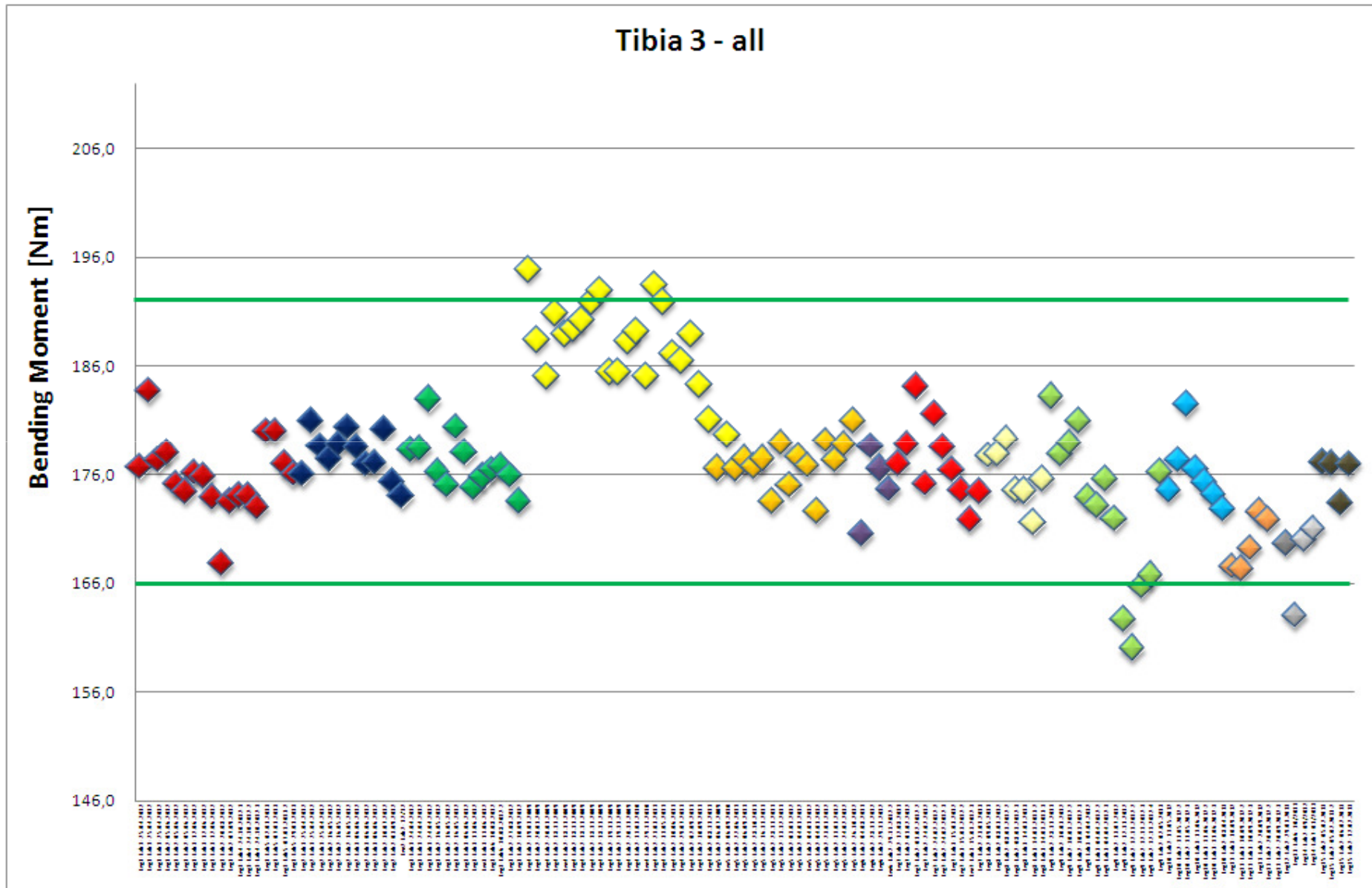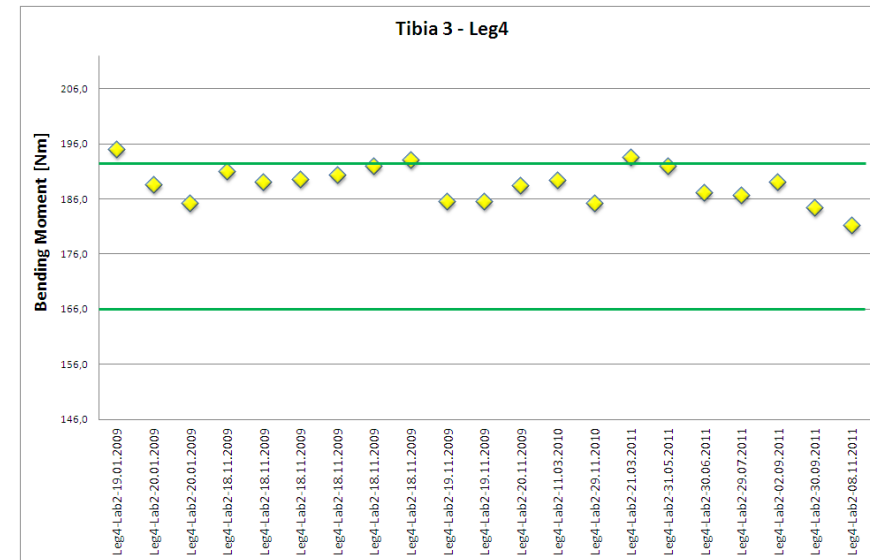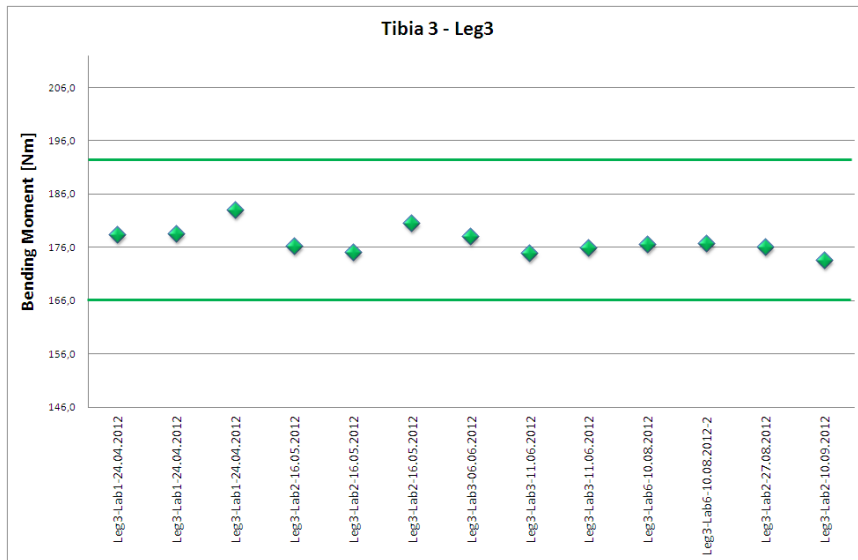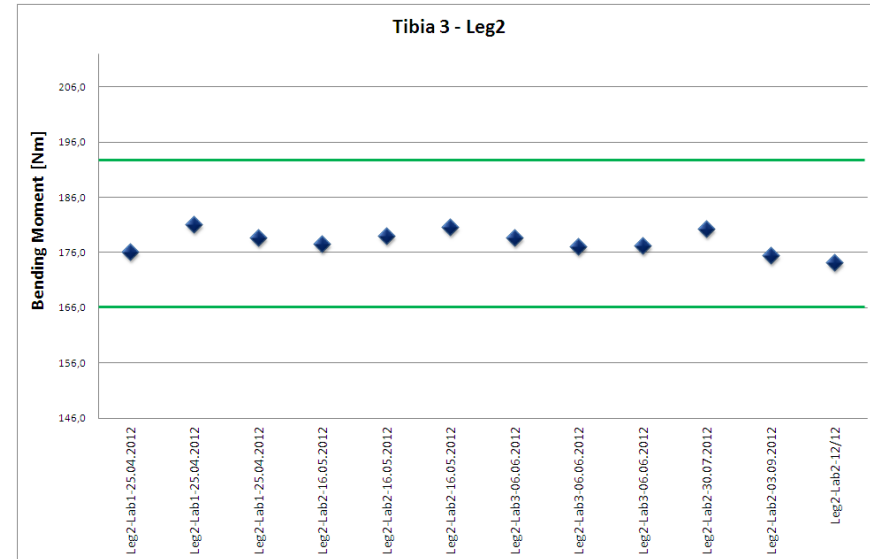# Results Overview - Inverse Tests T2

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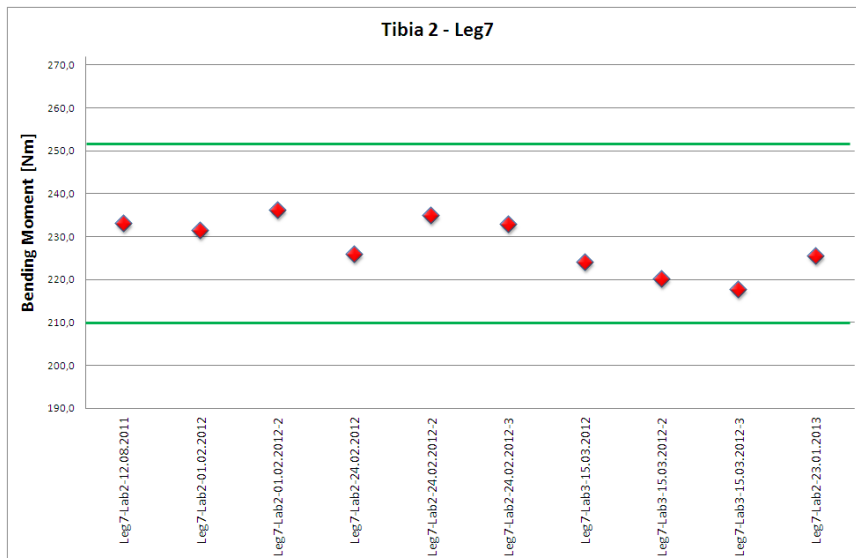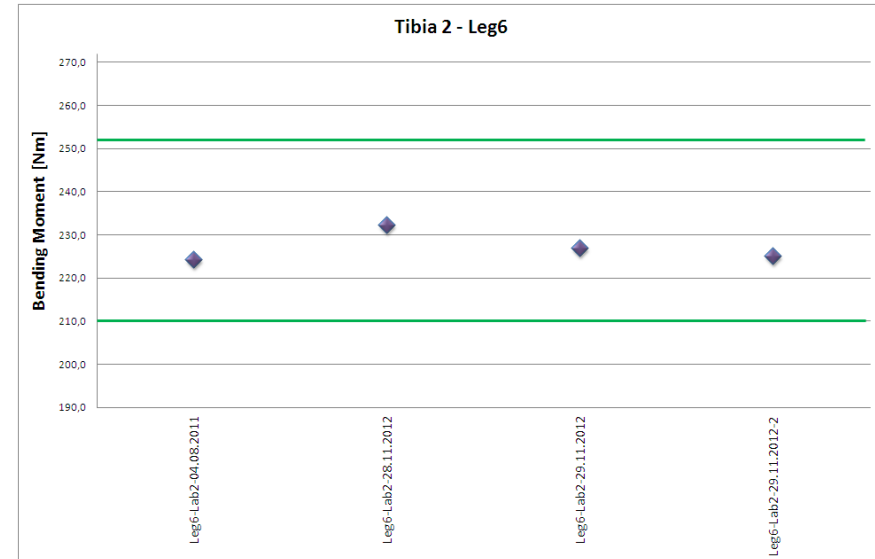
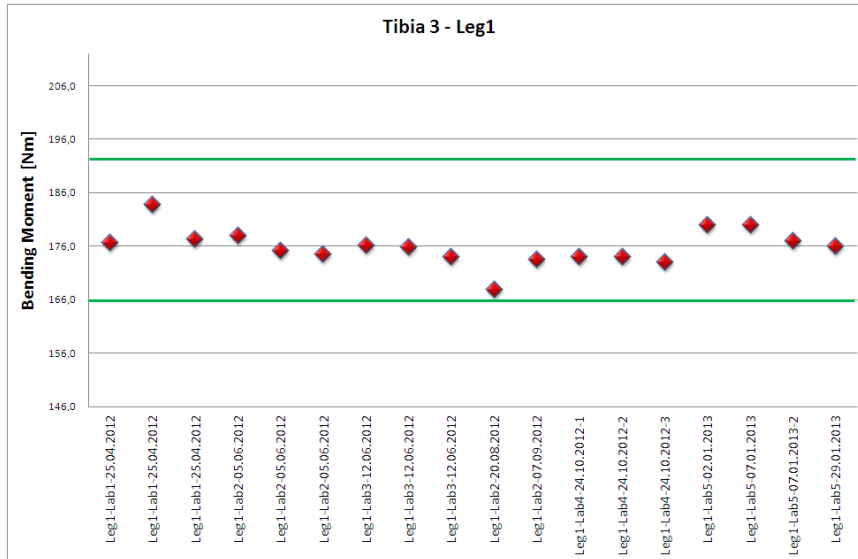# Results Tibia 2 - Inverse Tests
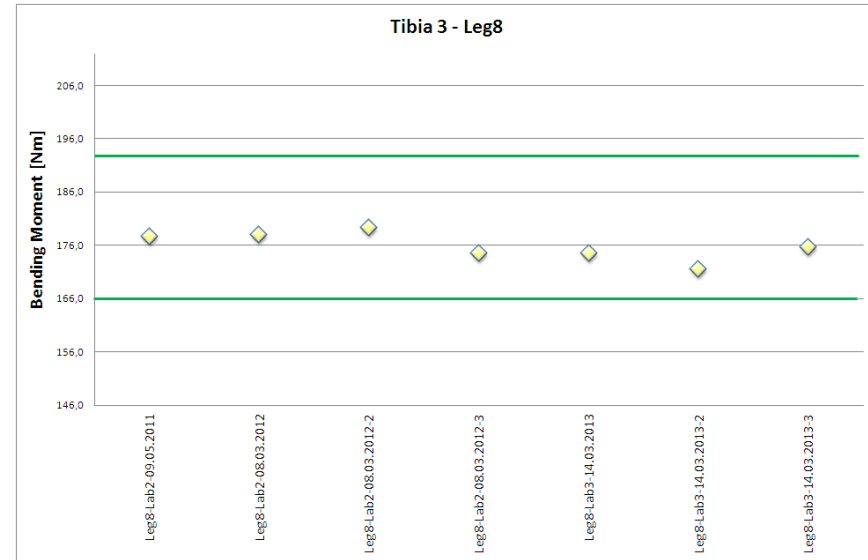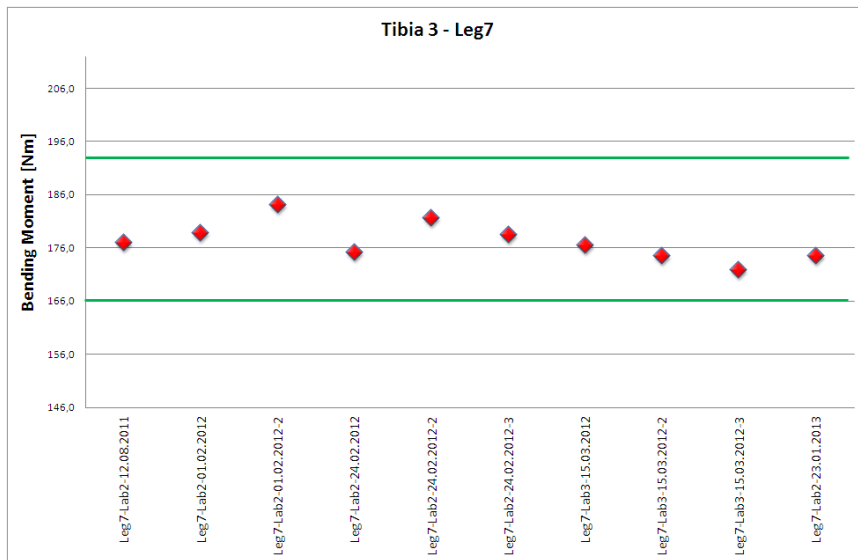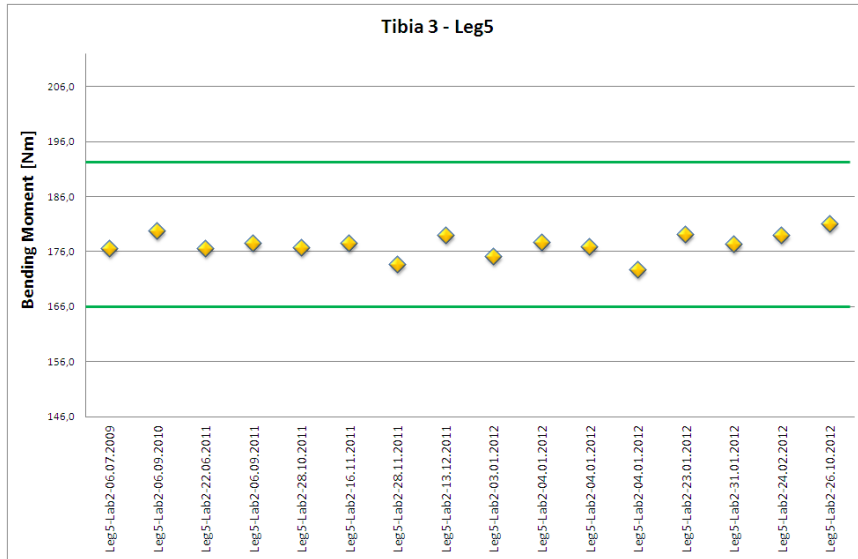
Results Tibia 2 - Inverse Tests

Results Tibia 2 - Inverse Tests
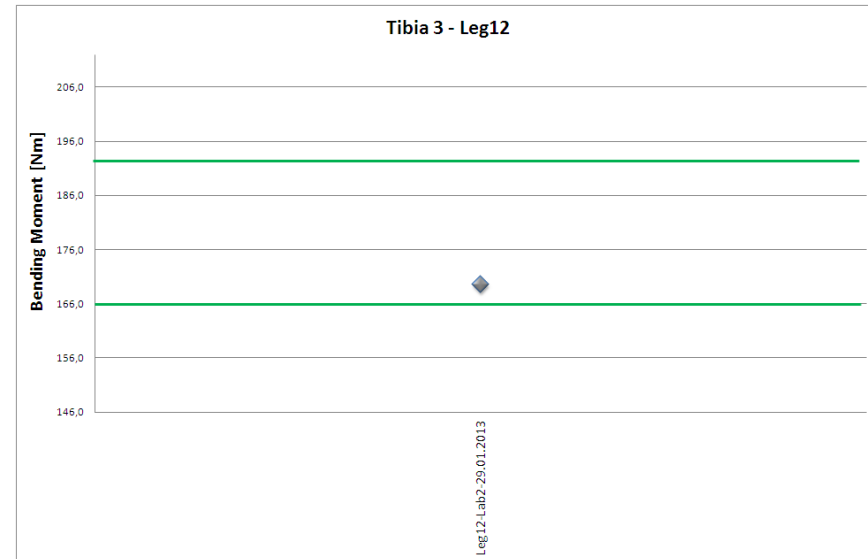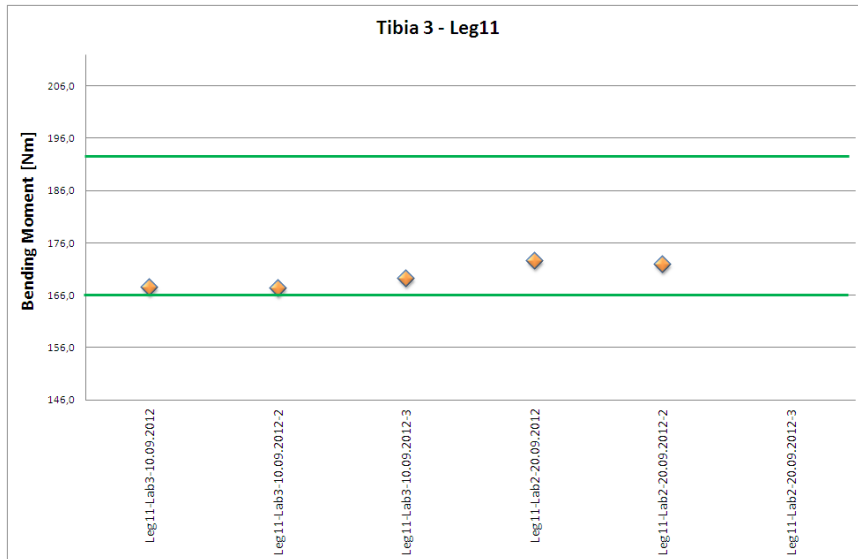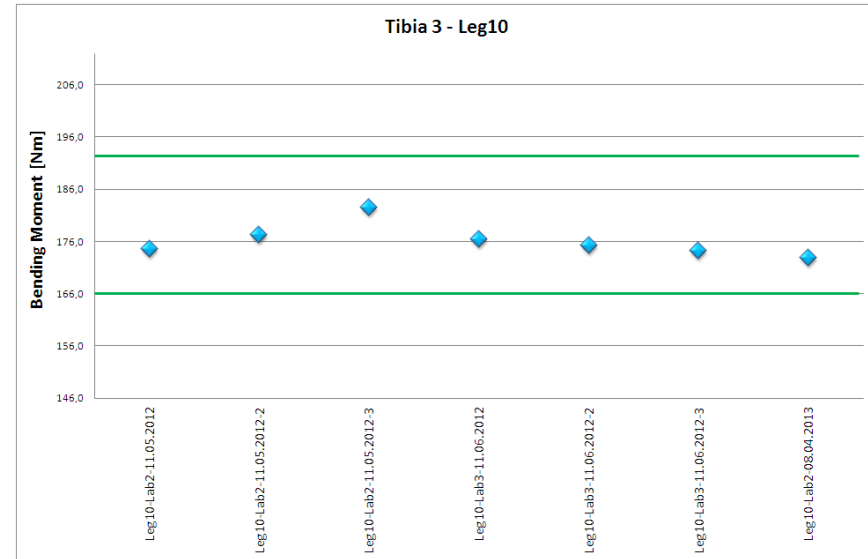
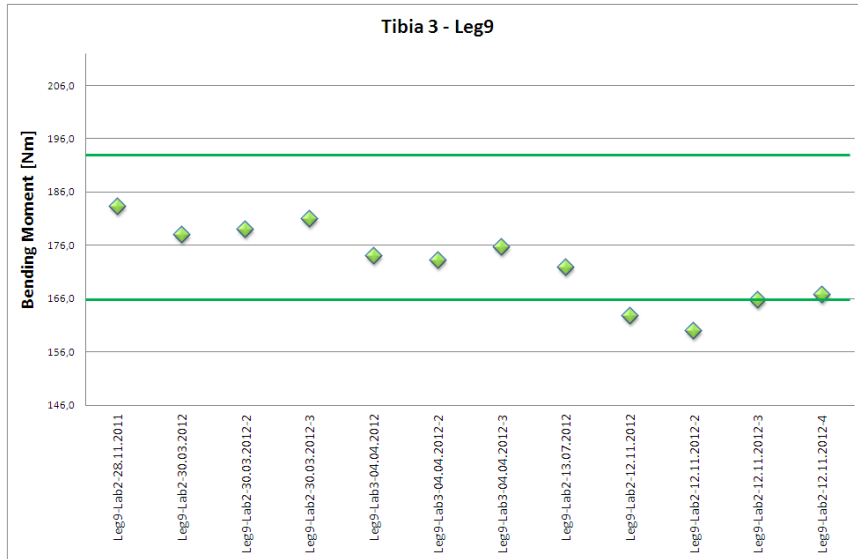# Results Overview - Inverse Tests T3

Results Tibia 3 - Inverse Tests

Results Tibia 3 - Inverse Tests

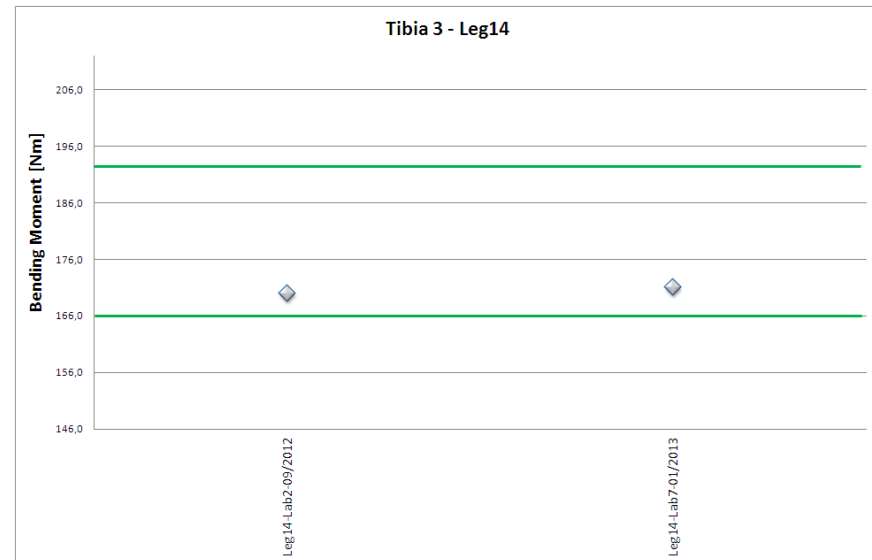# Results Tibia 3 - Inverse Tests

Results Tibia 3 - Inverse Tests

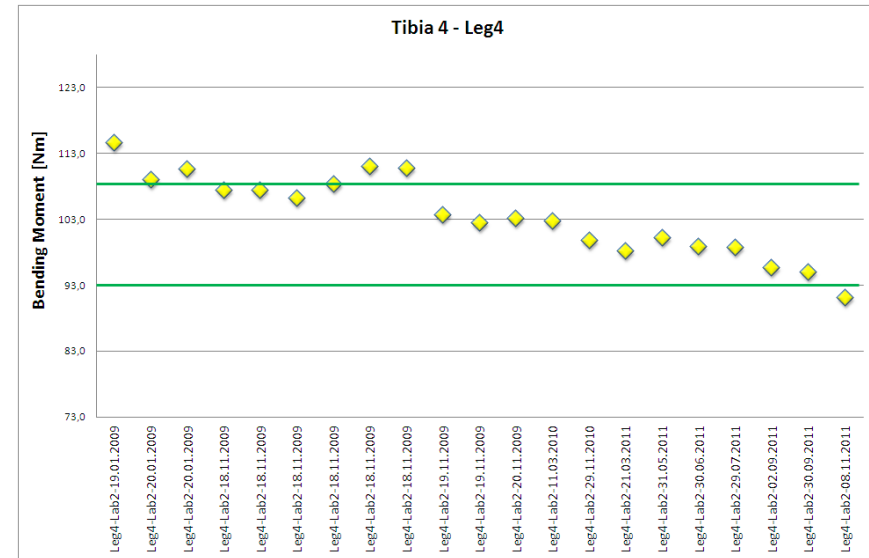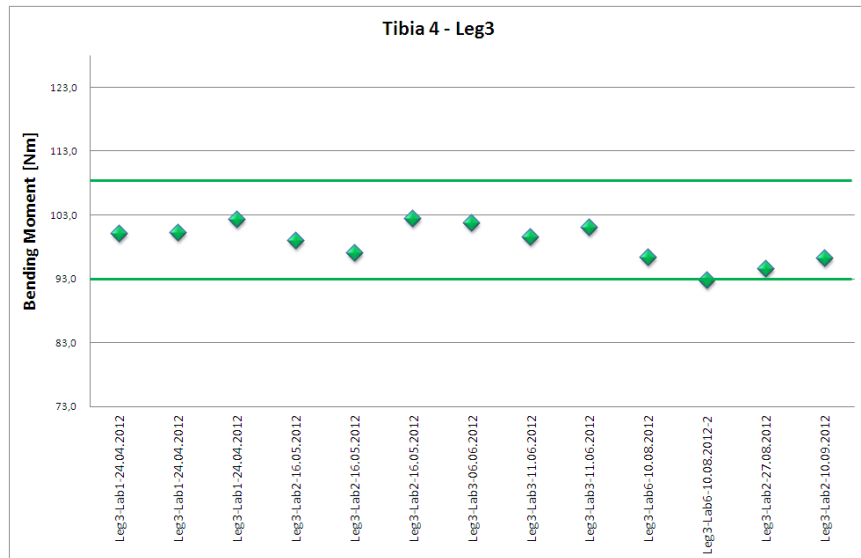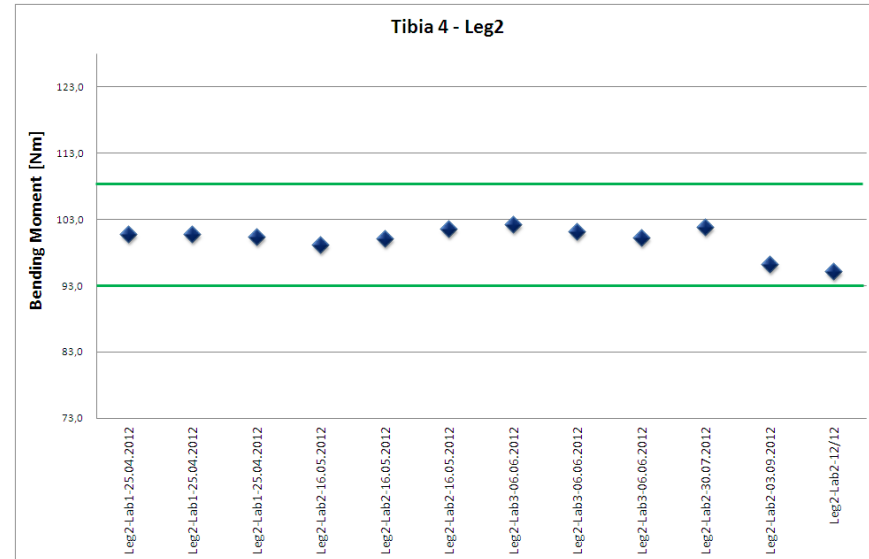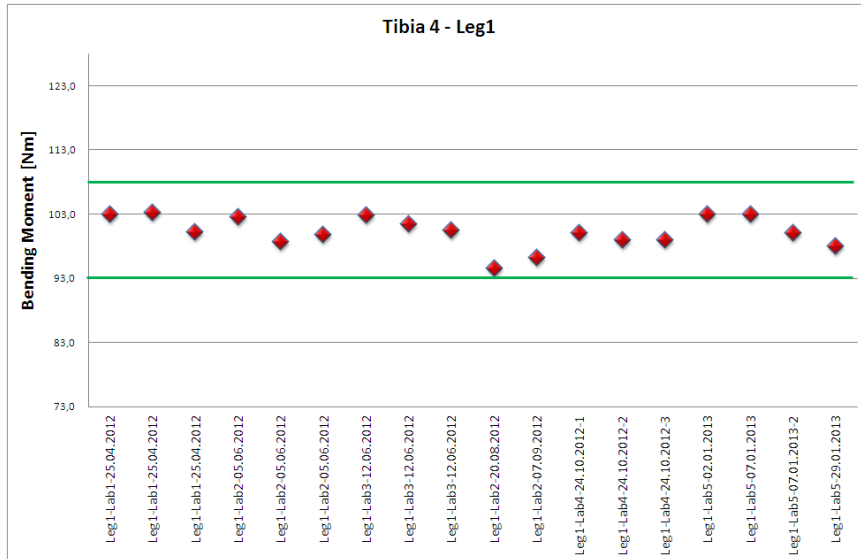# Results Overview - Inverse Tests T4
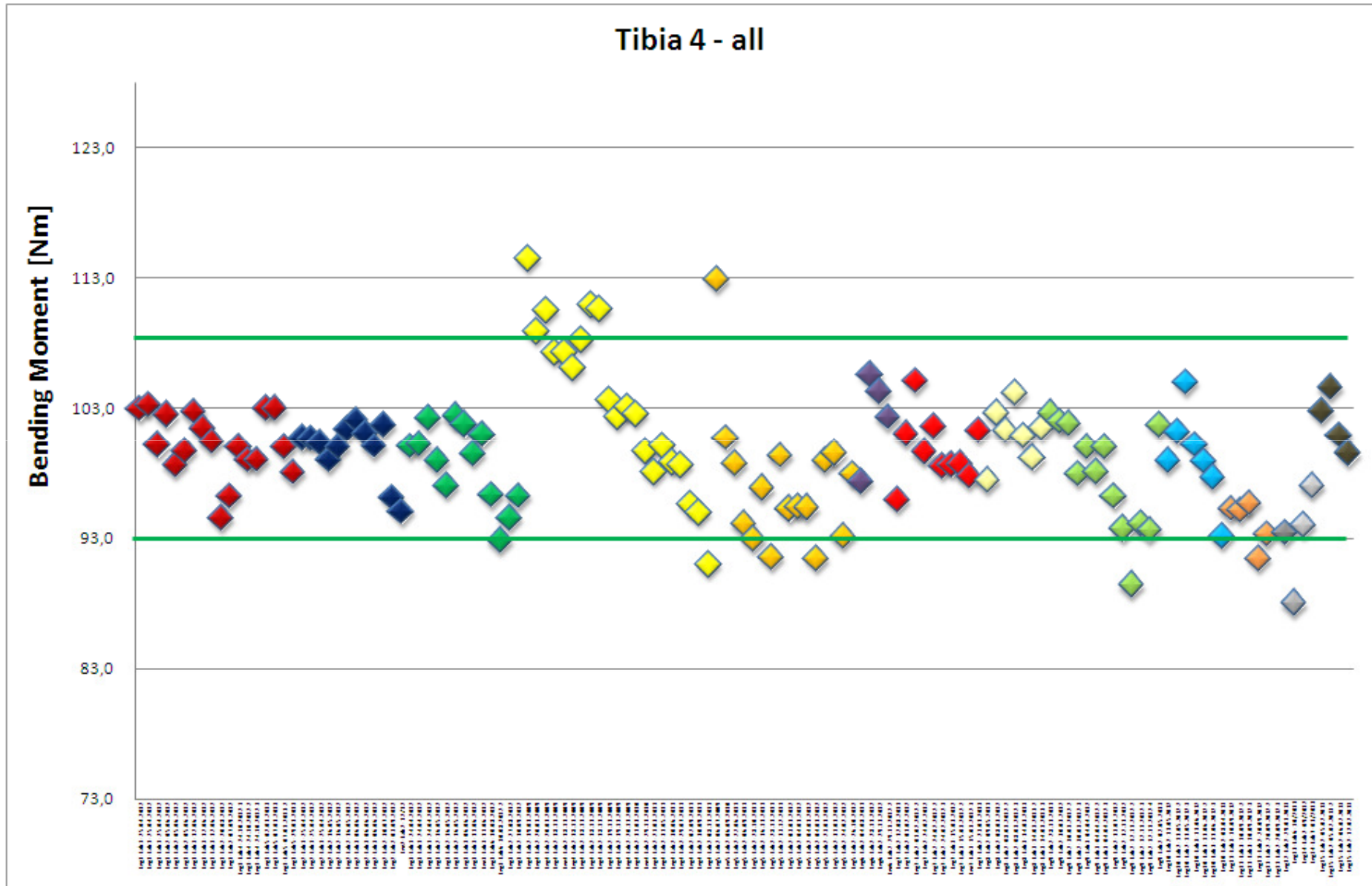
Results Tibia 4 - Inverse Tests

Results Tibia 4 - Inverse Tests

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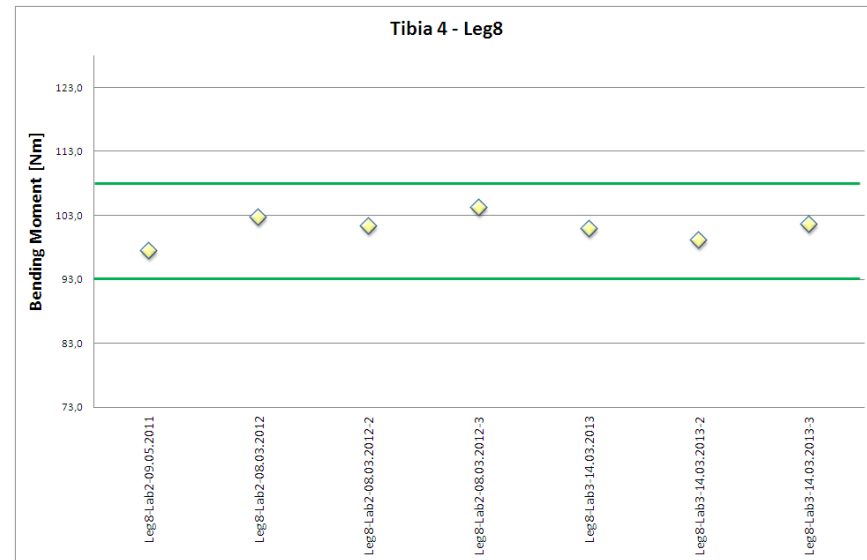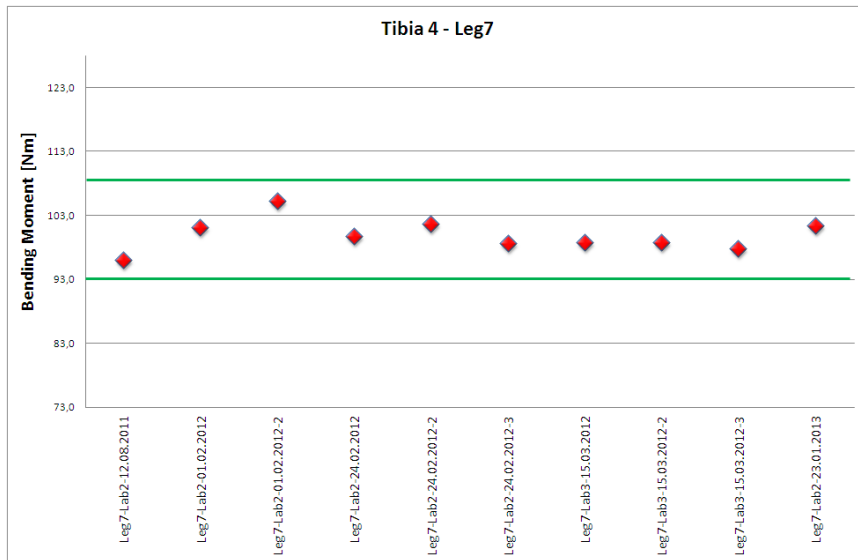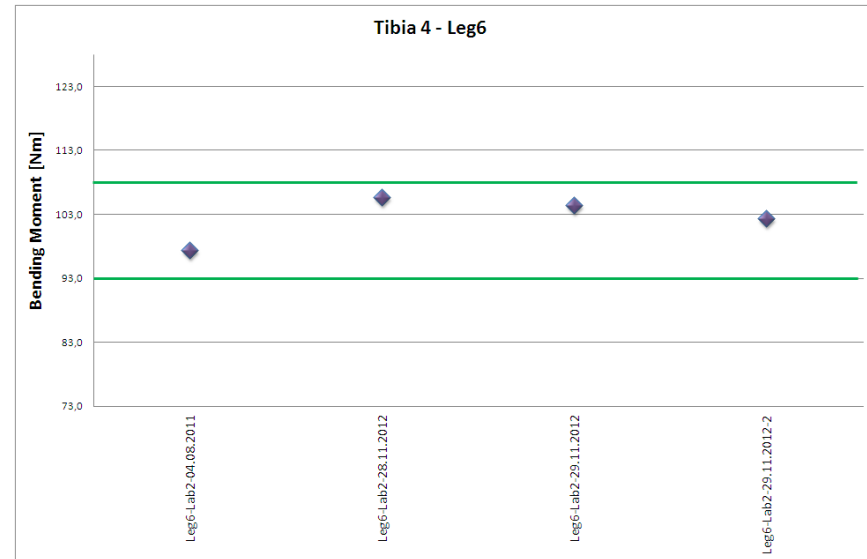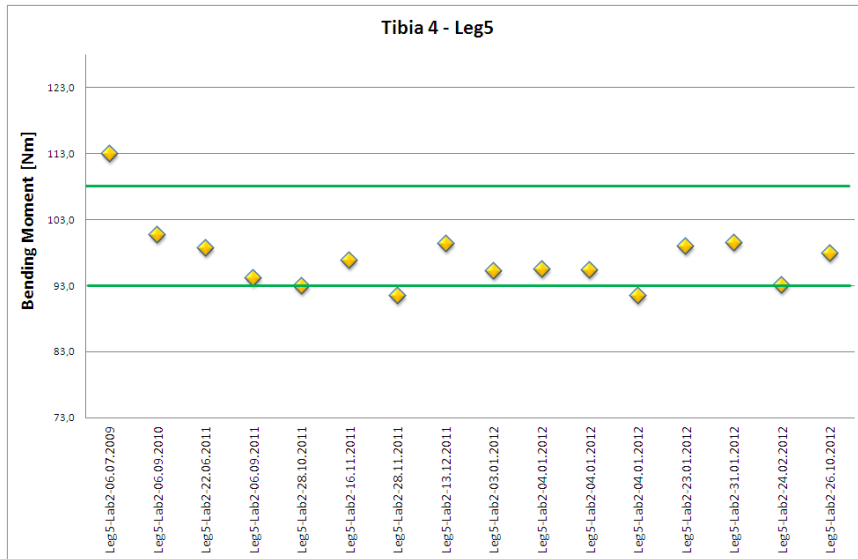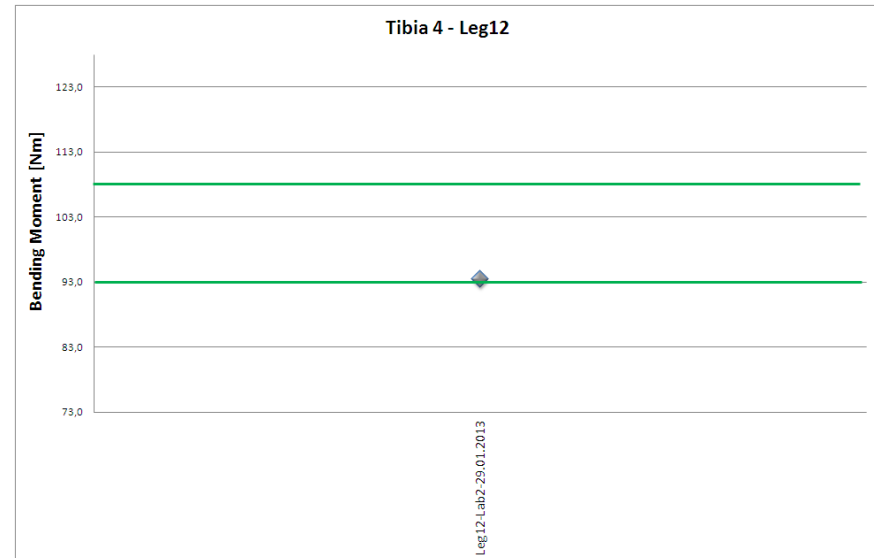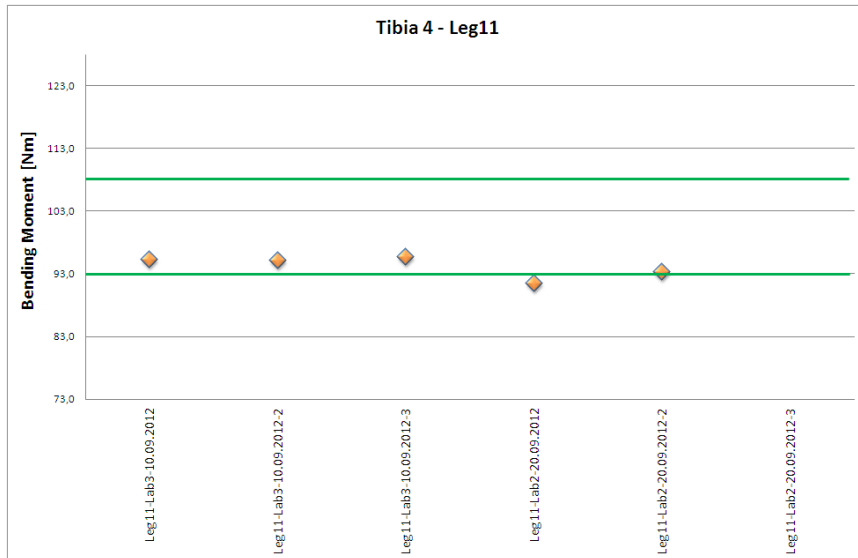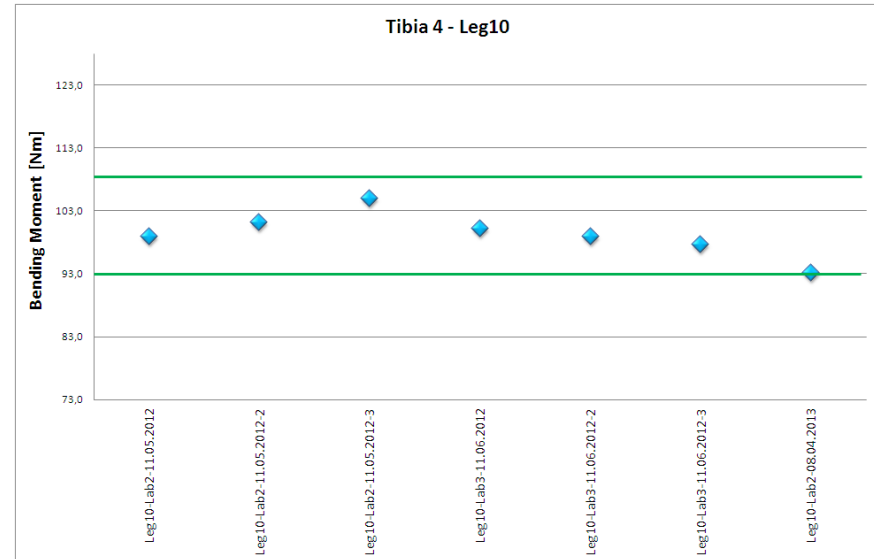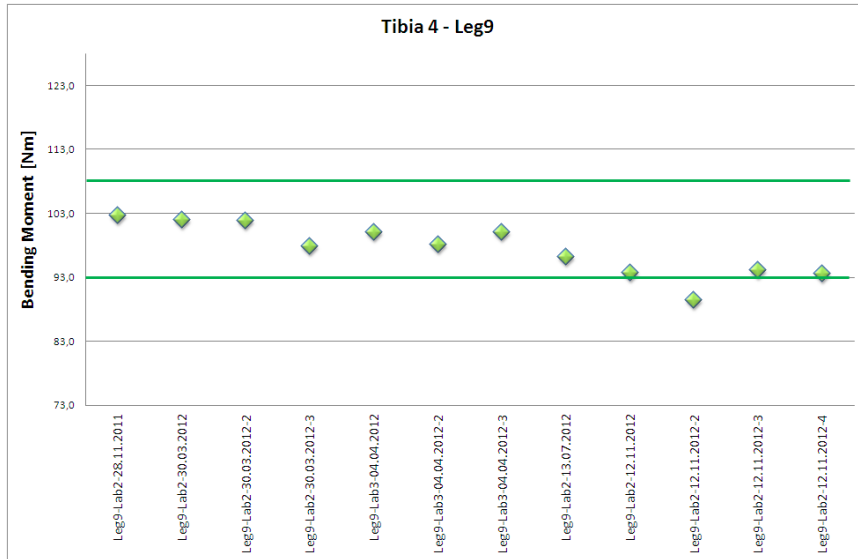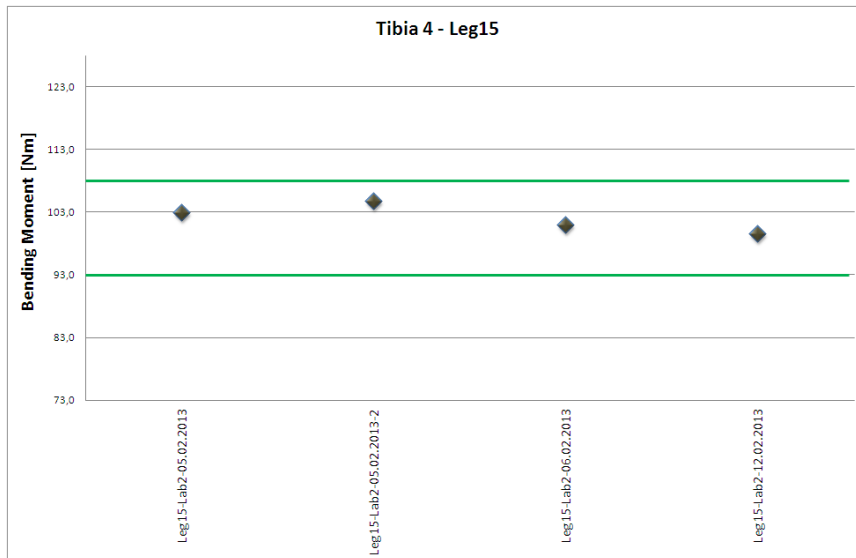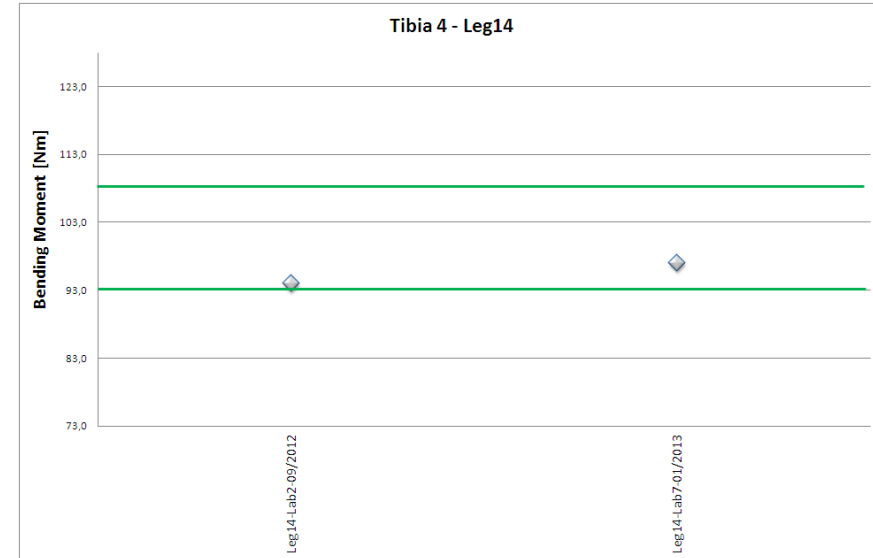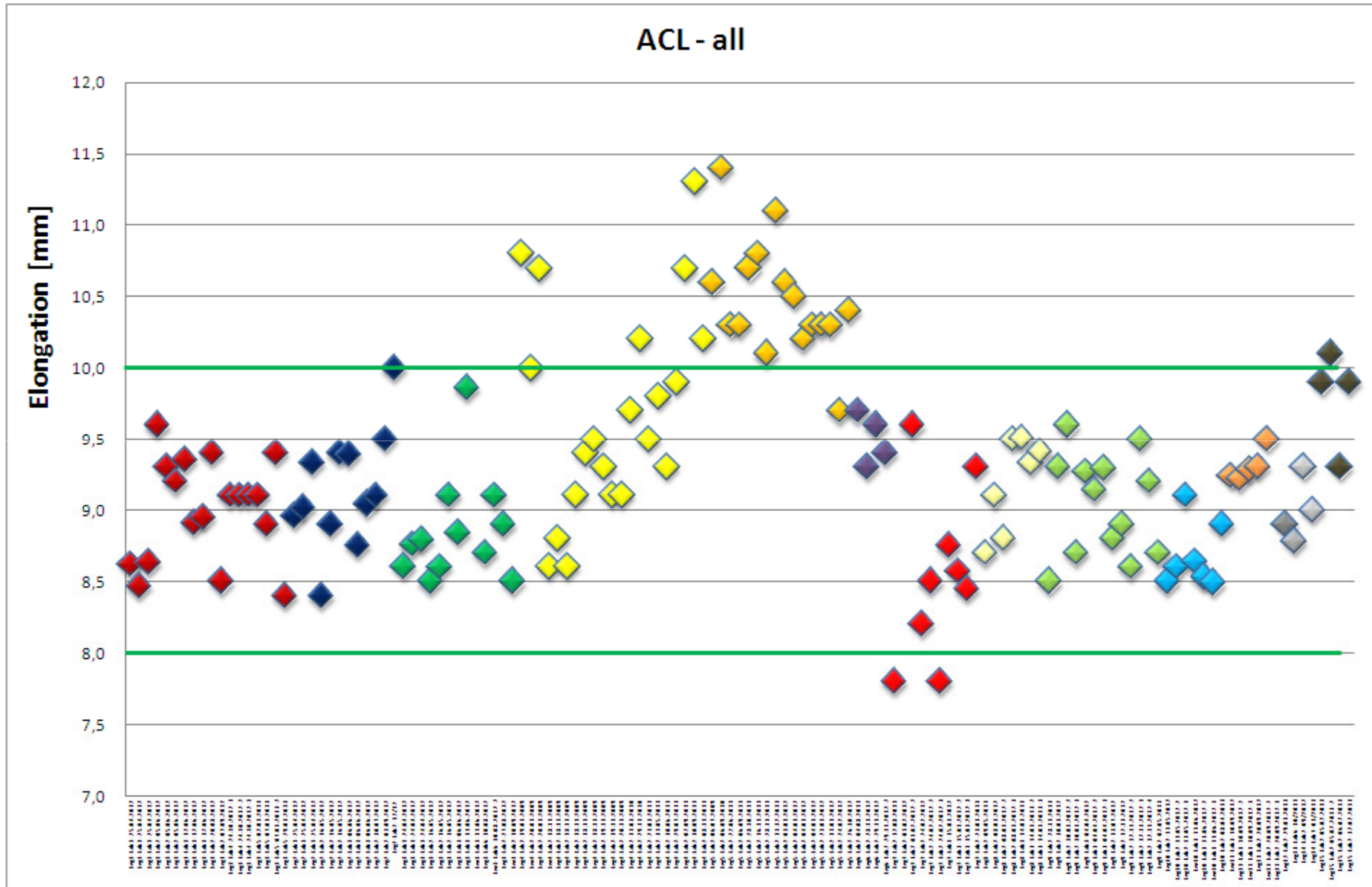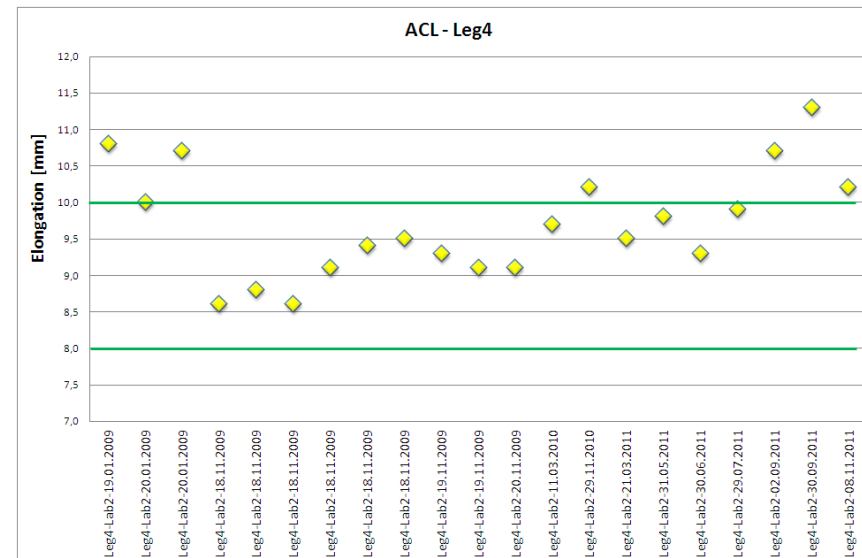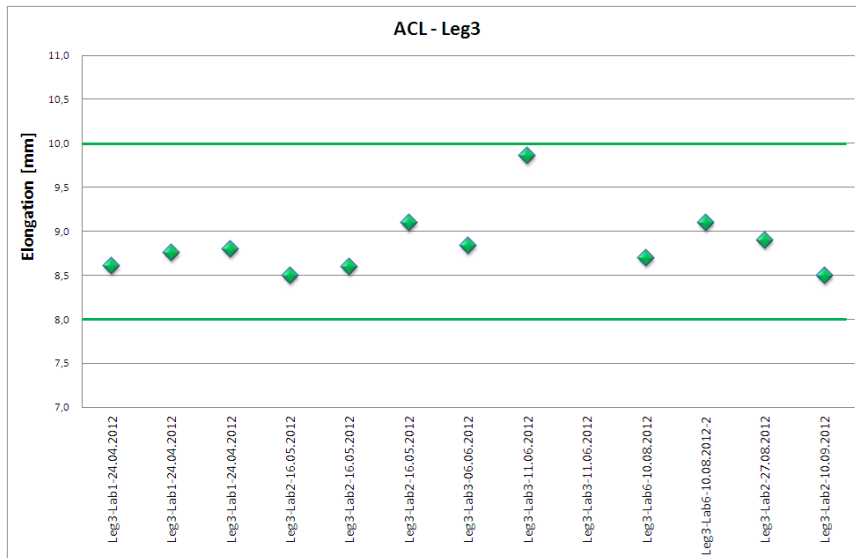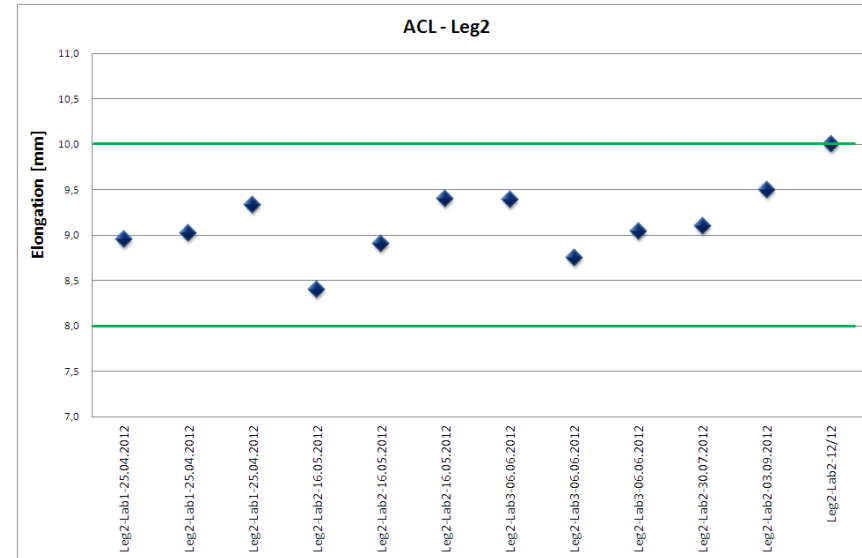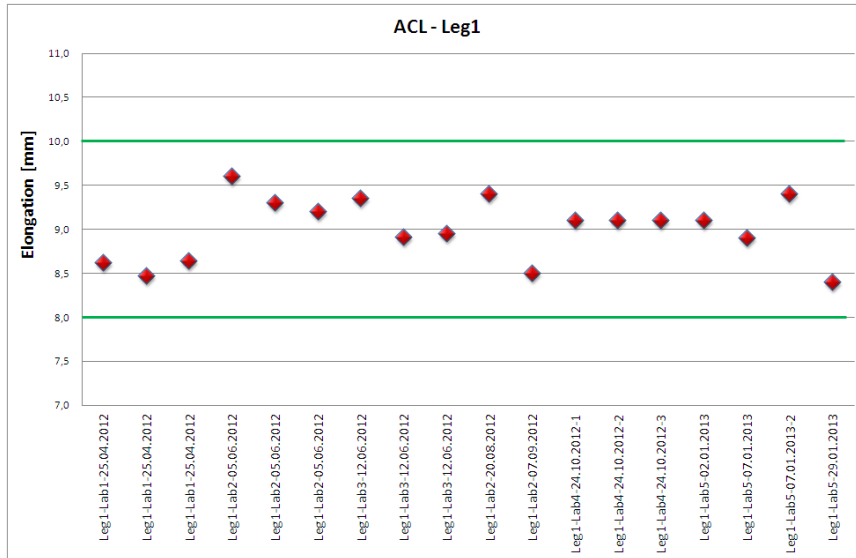# Results Overview - Inverse Tests ACL

Results ACL - Inverse Tests

Results ACL - Inverse Tests

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Results ACL - Inverse Tests

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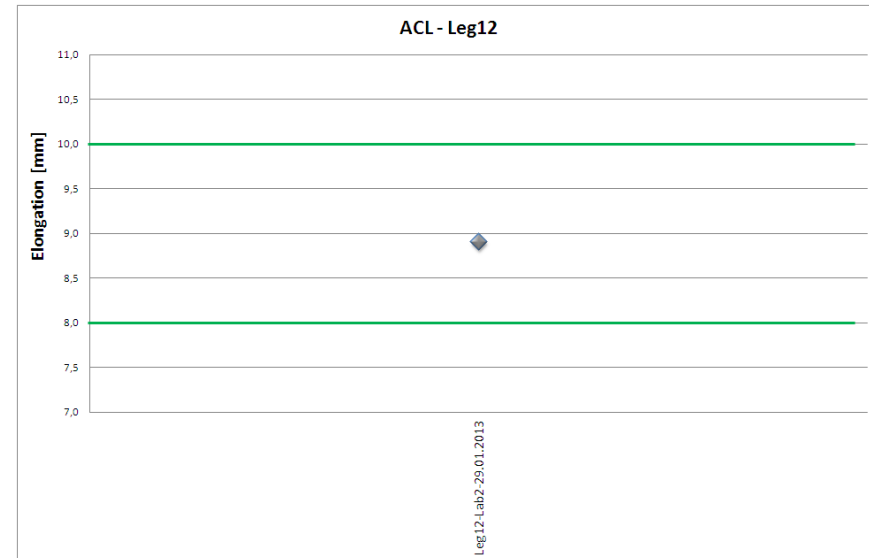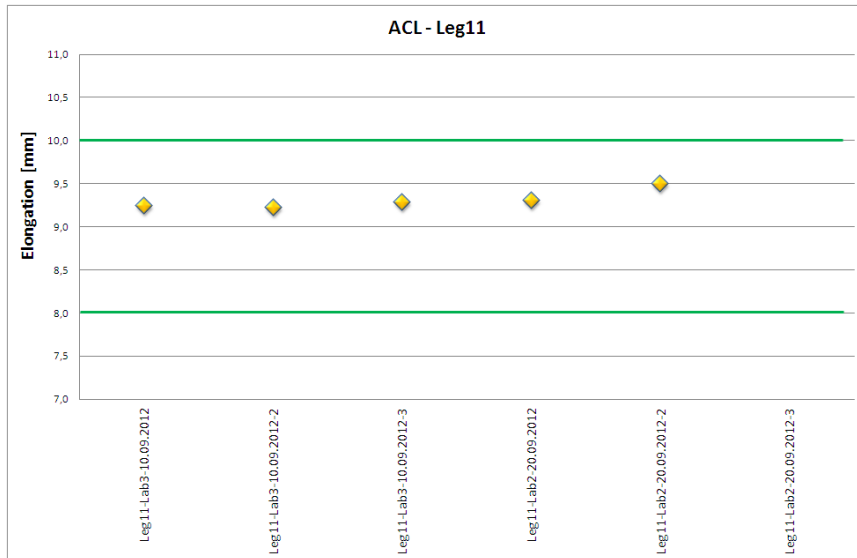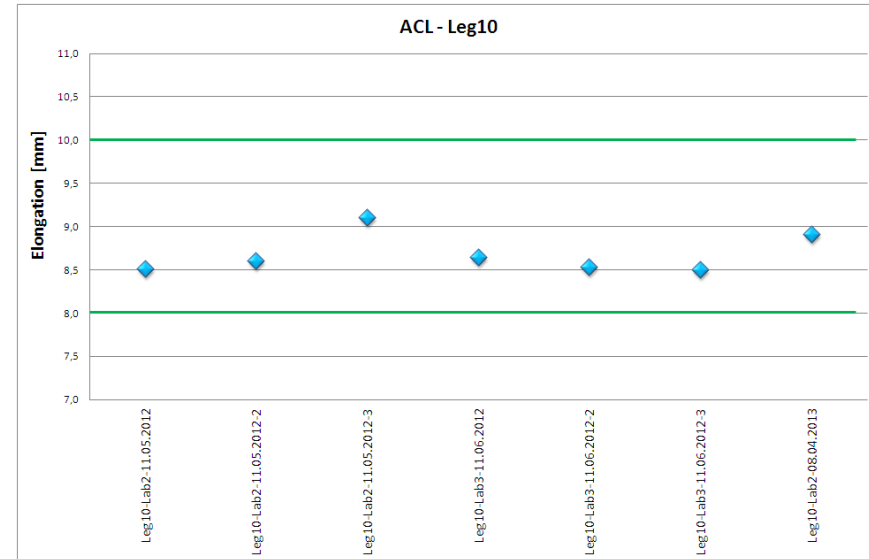
Results Overview - Inverse Tests PCL

Results PCL - Inverse Tests

Results PCL - Inverse Tests

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Results PCL - Inverse Tests

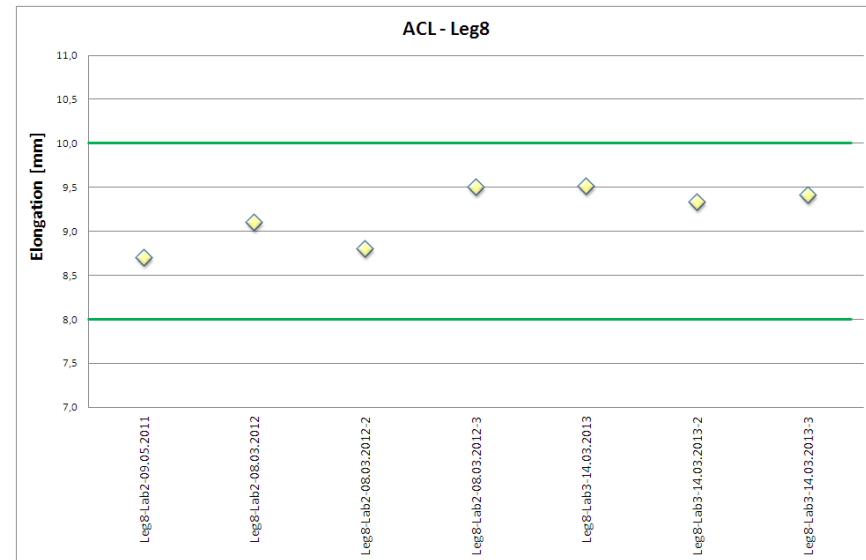# Results Overview - Inverse Tests MCL
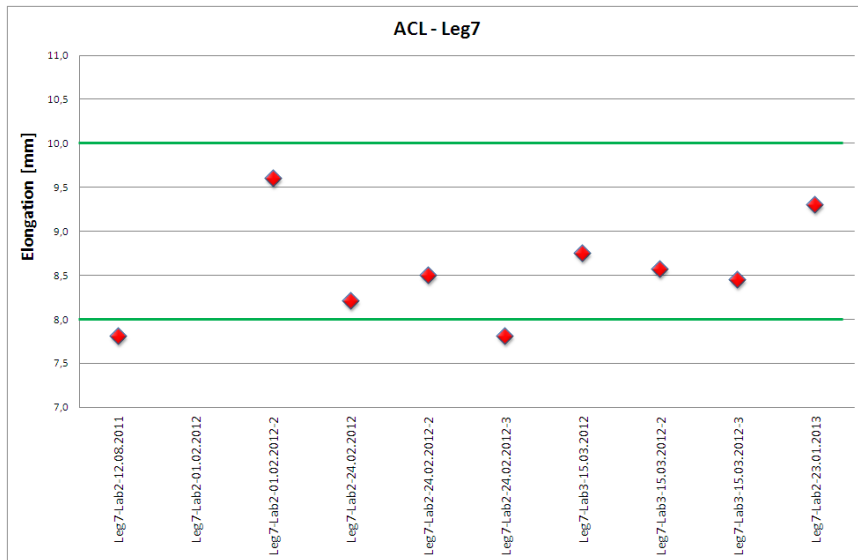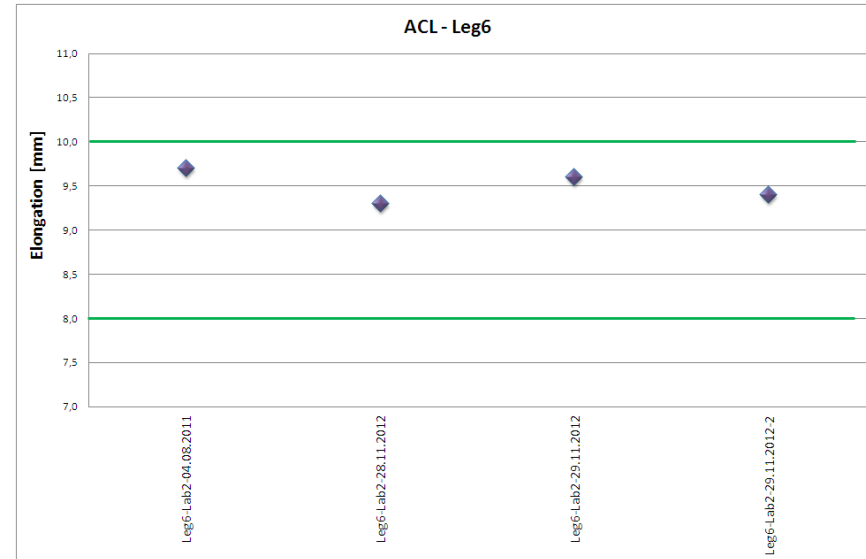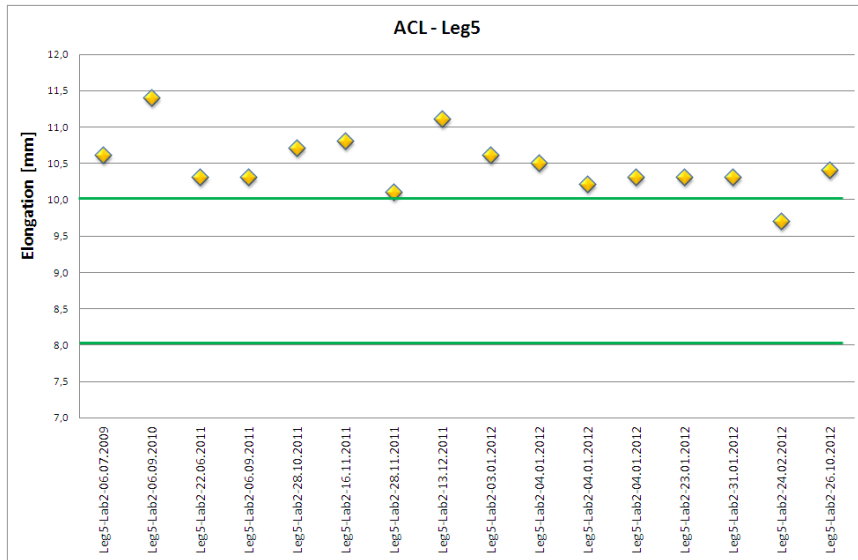
Results MCL - Inverse Tests
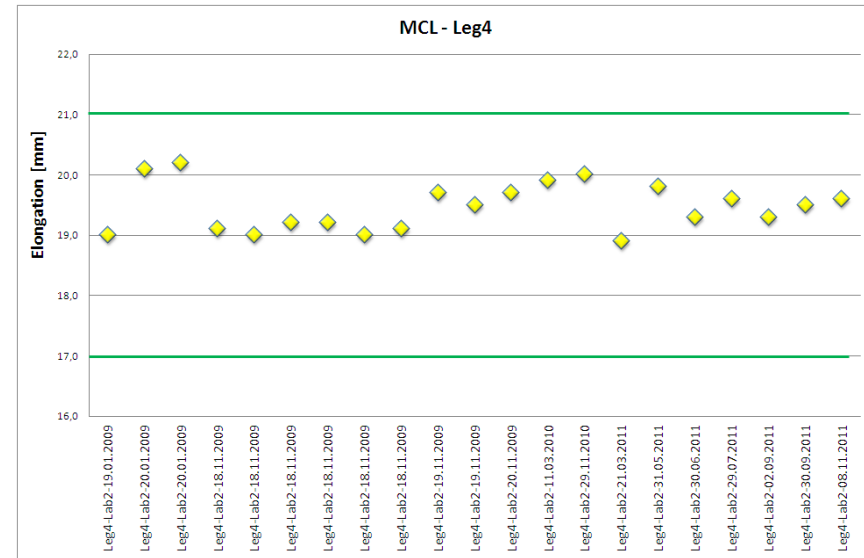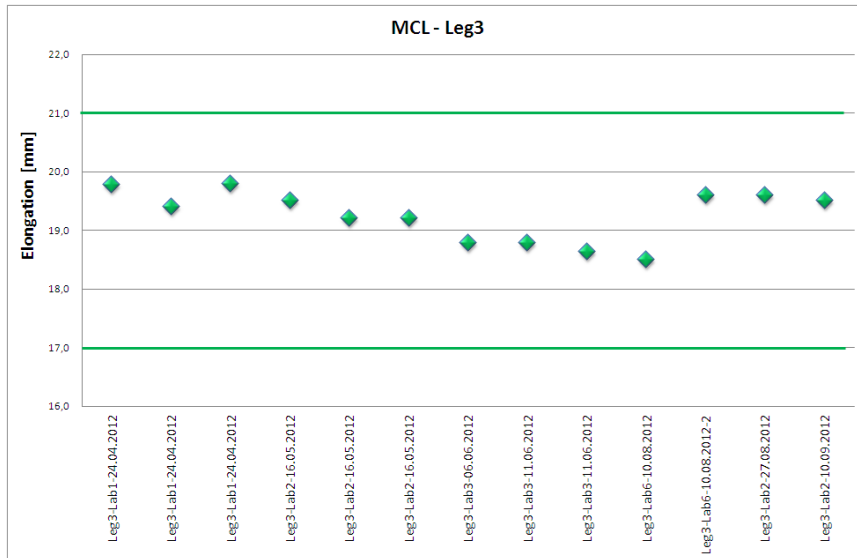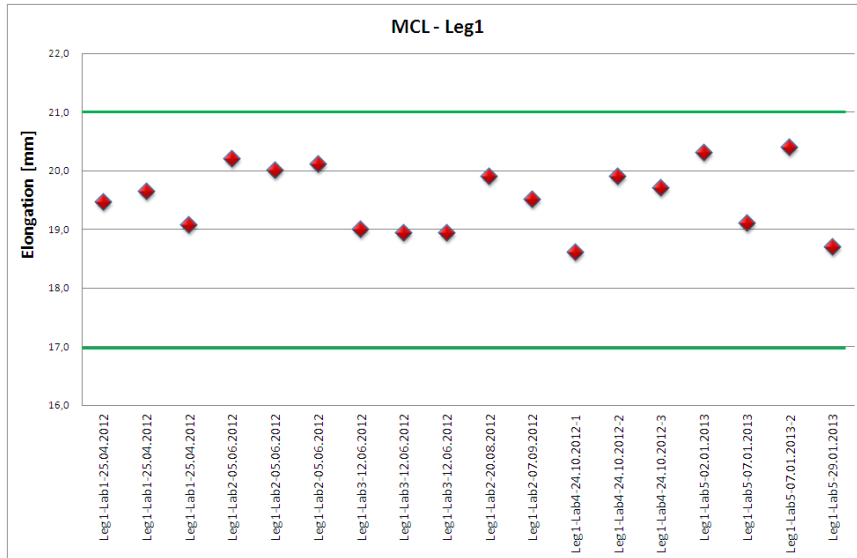
Results MCL - Inverse Tests

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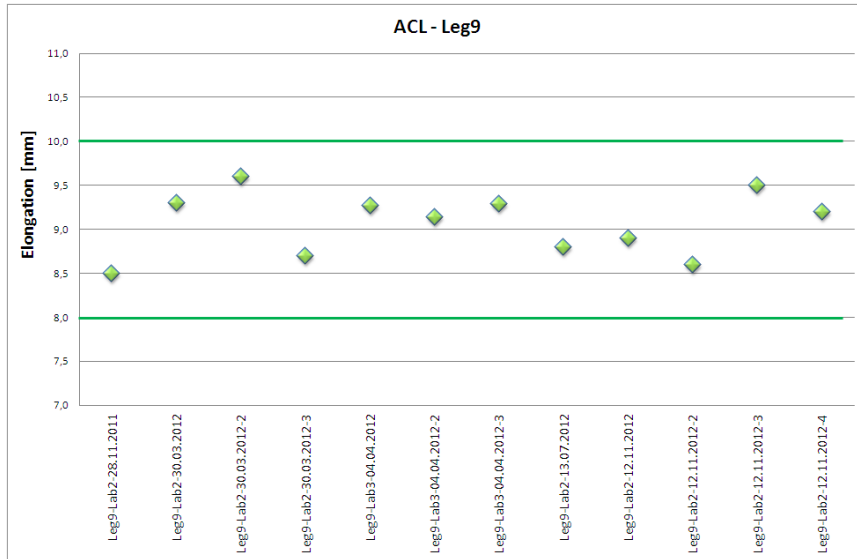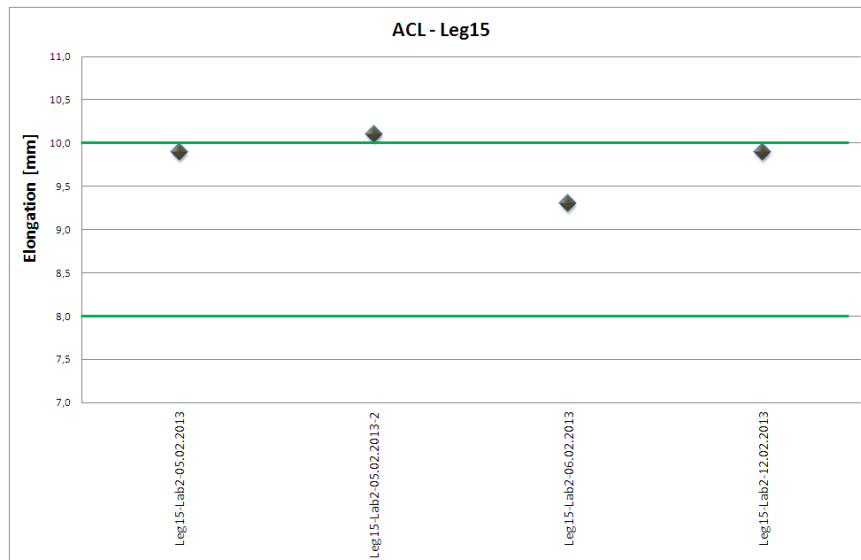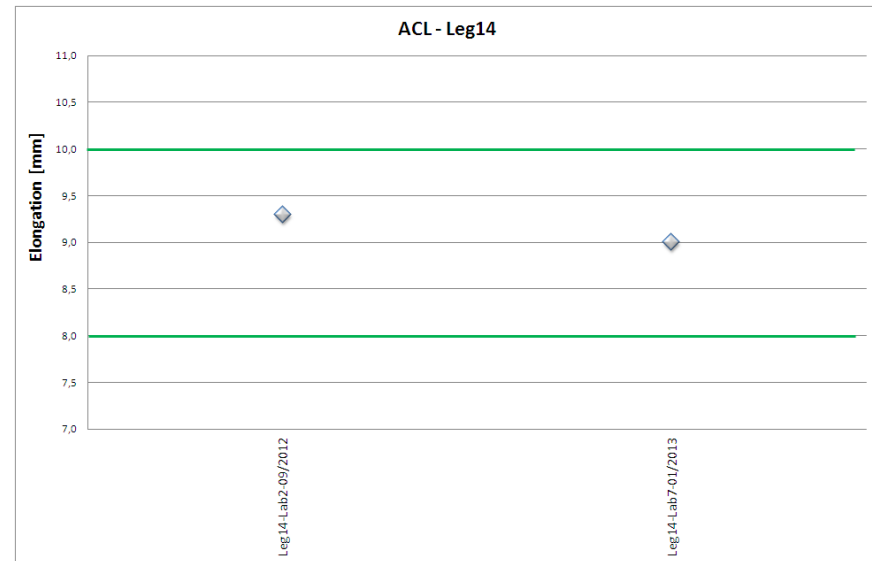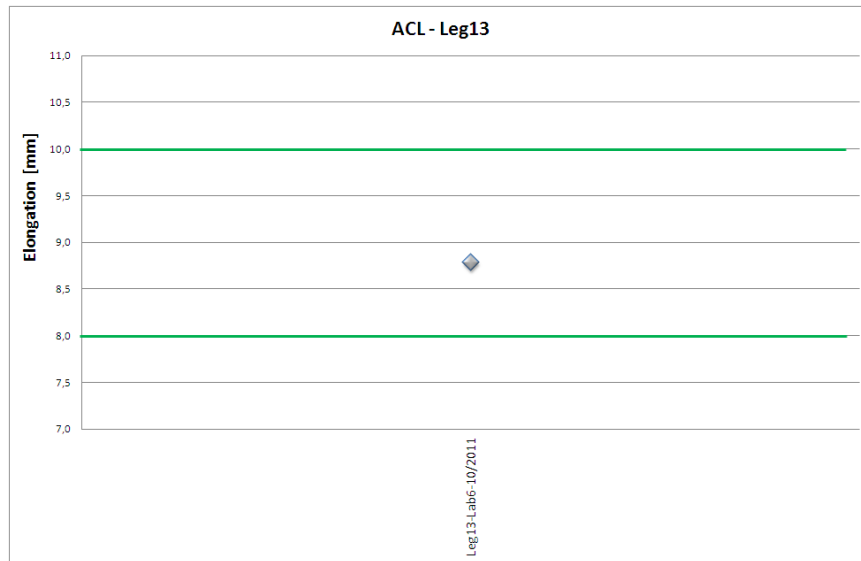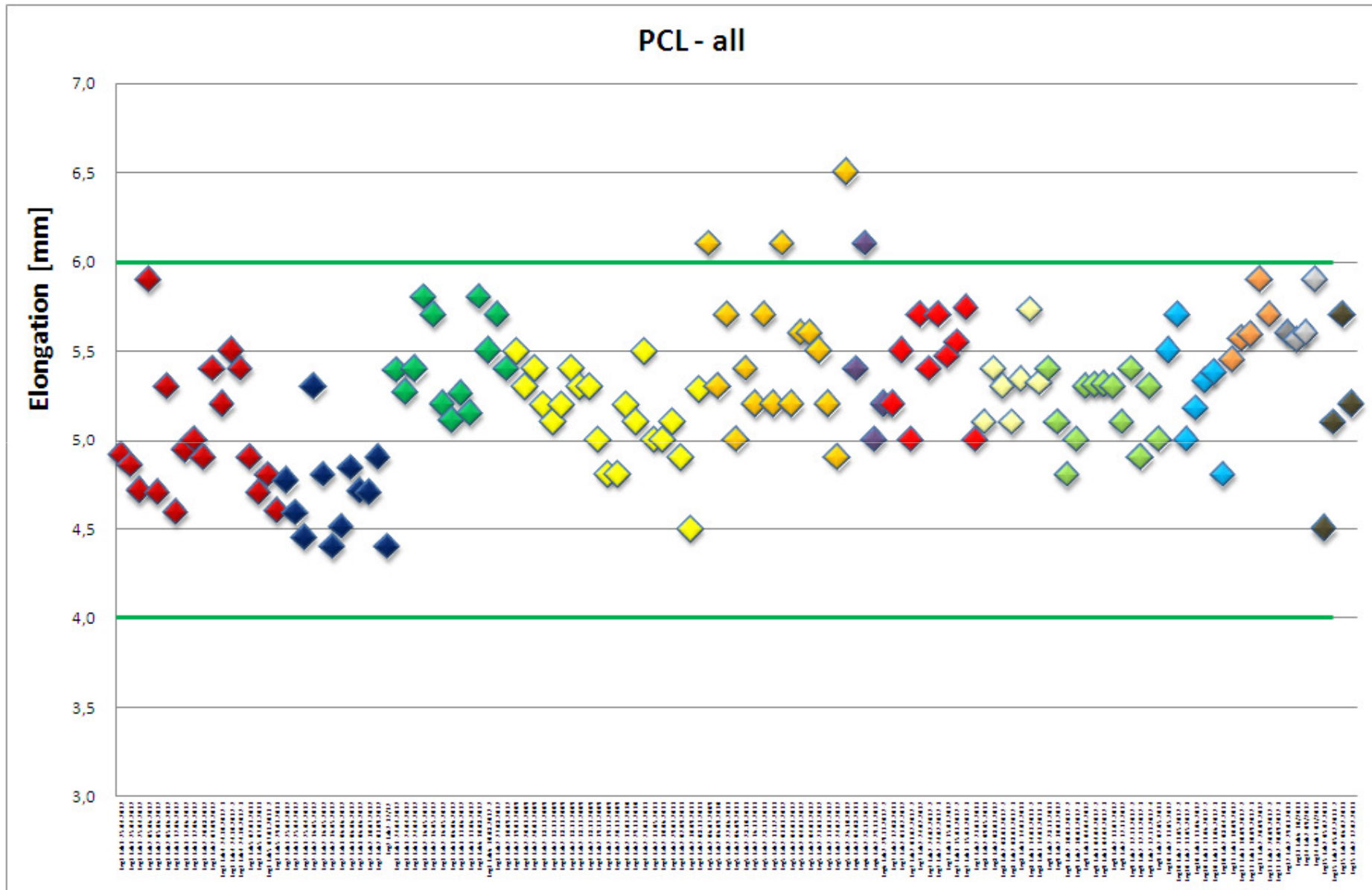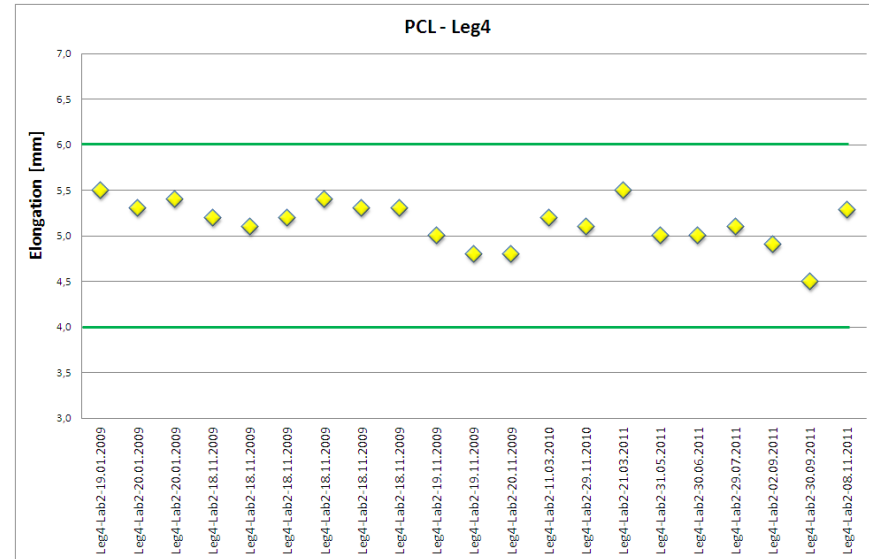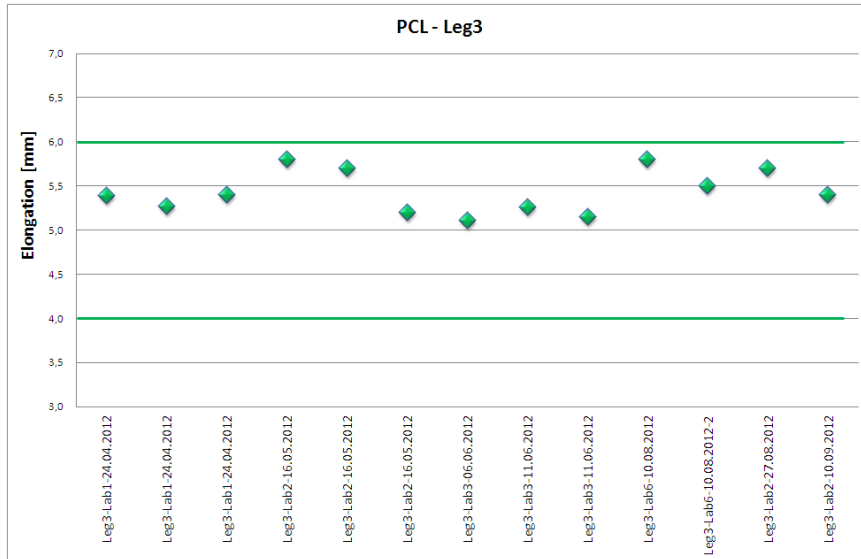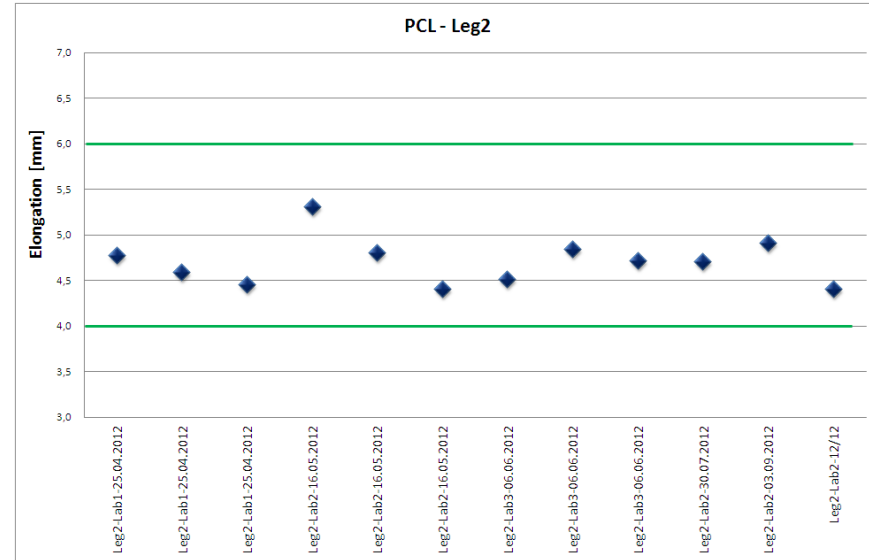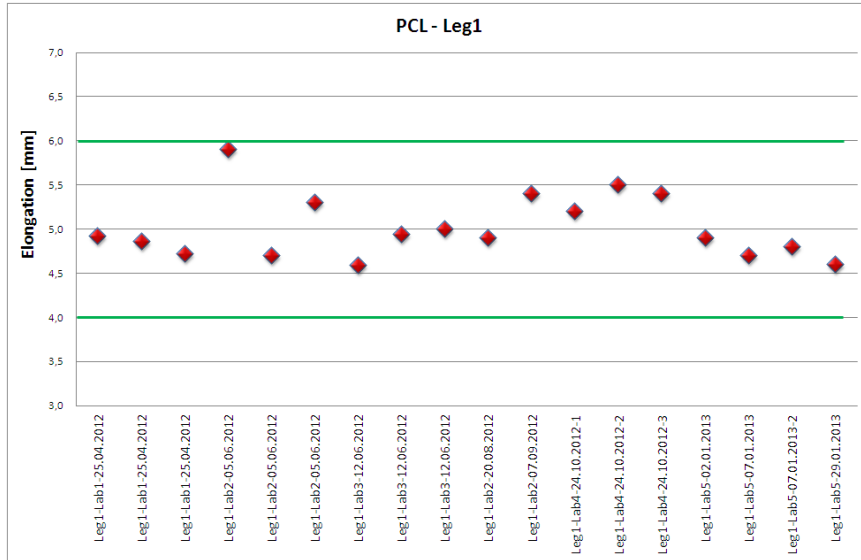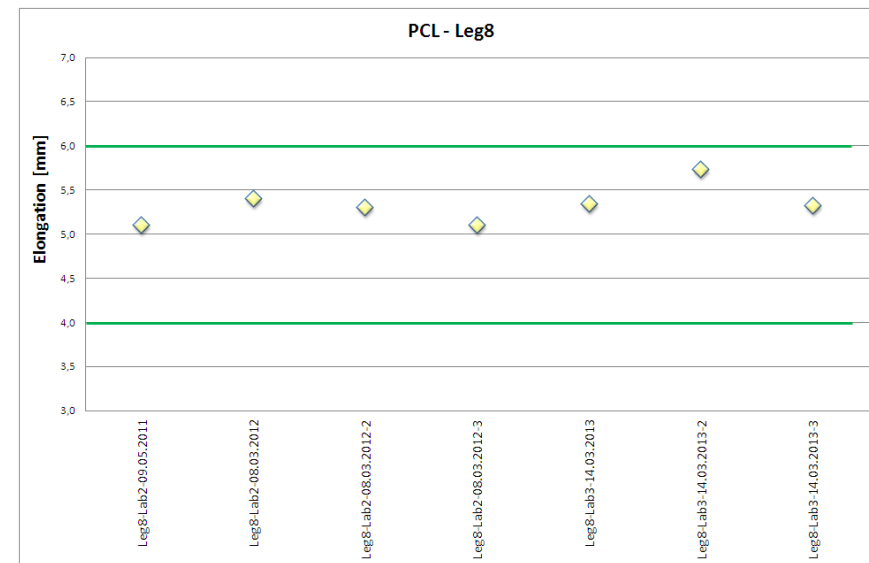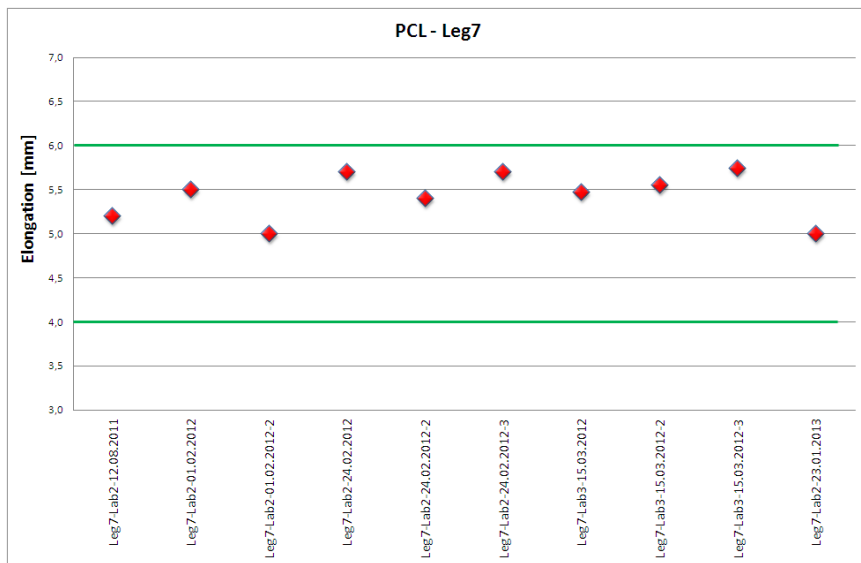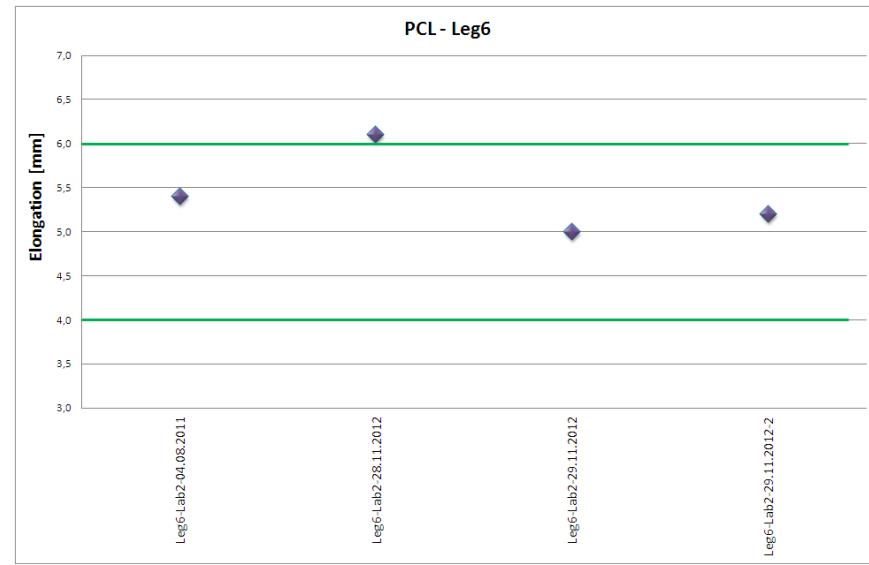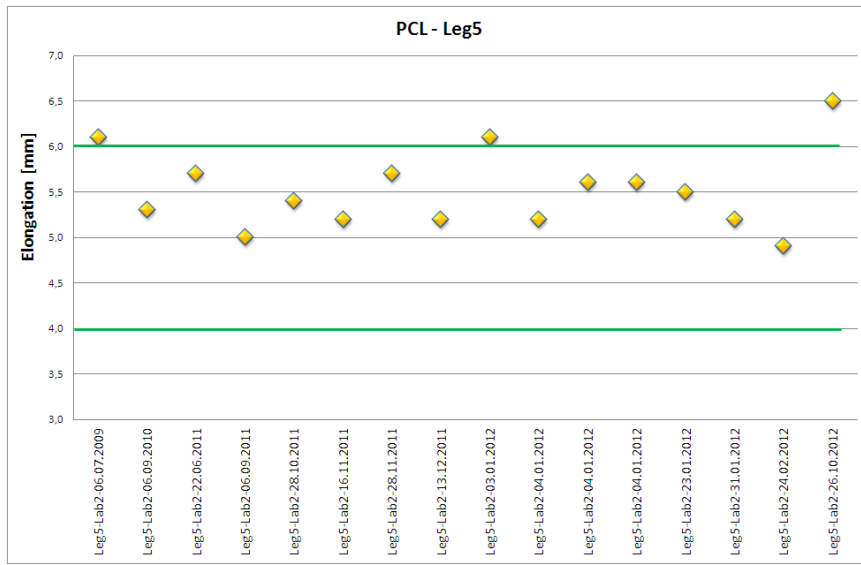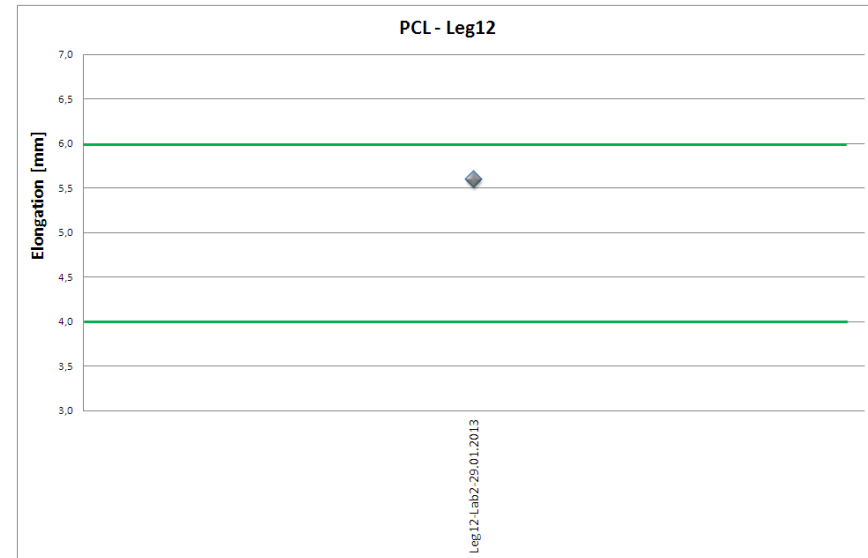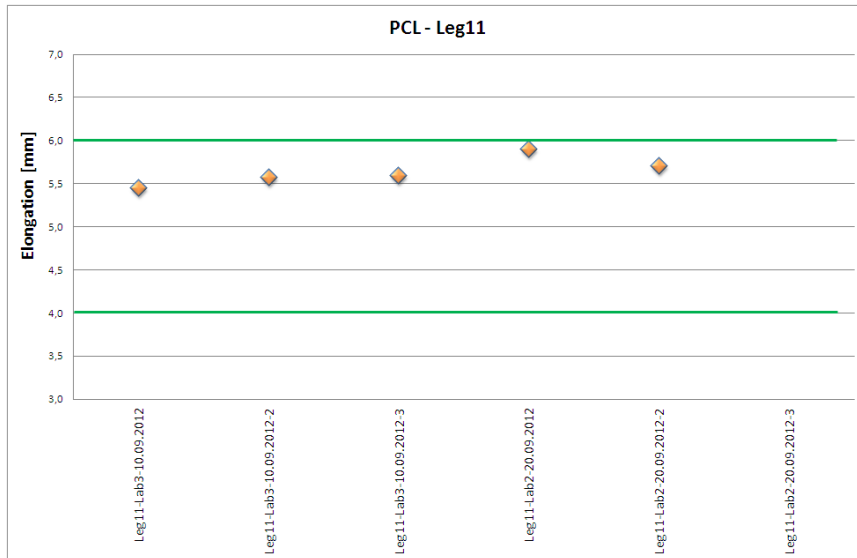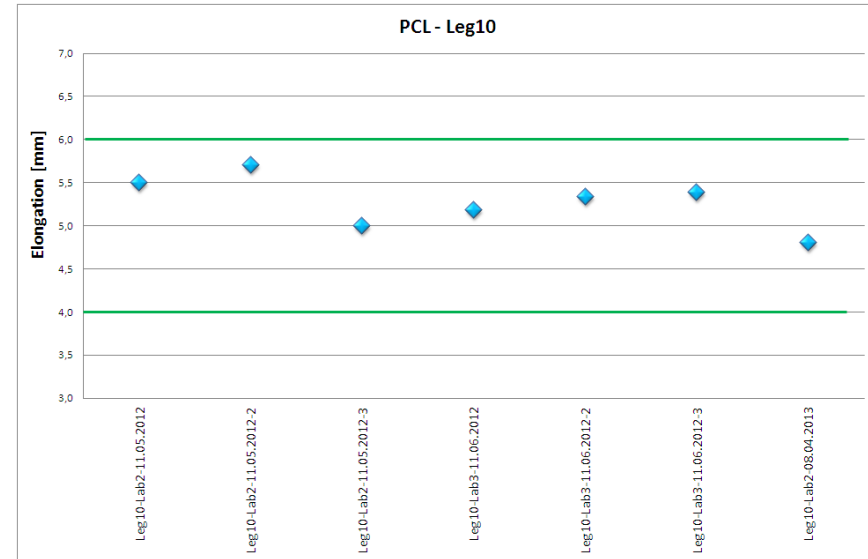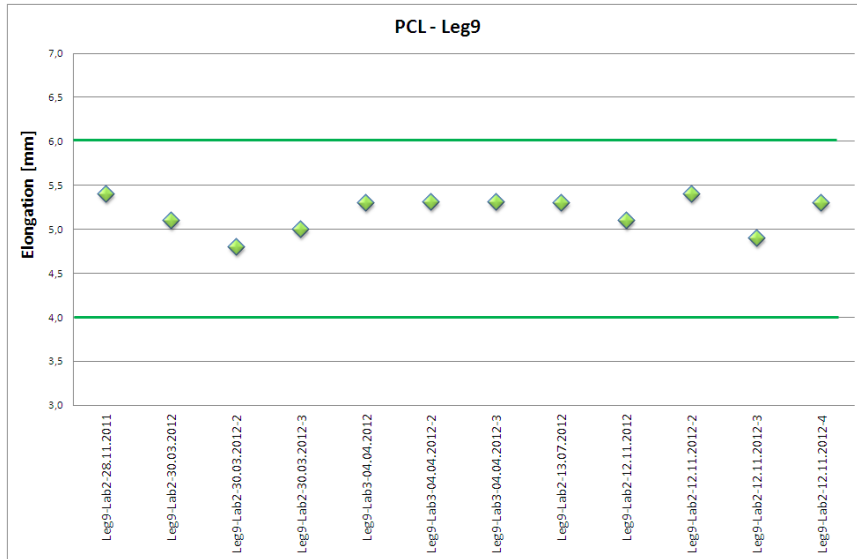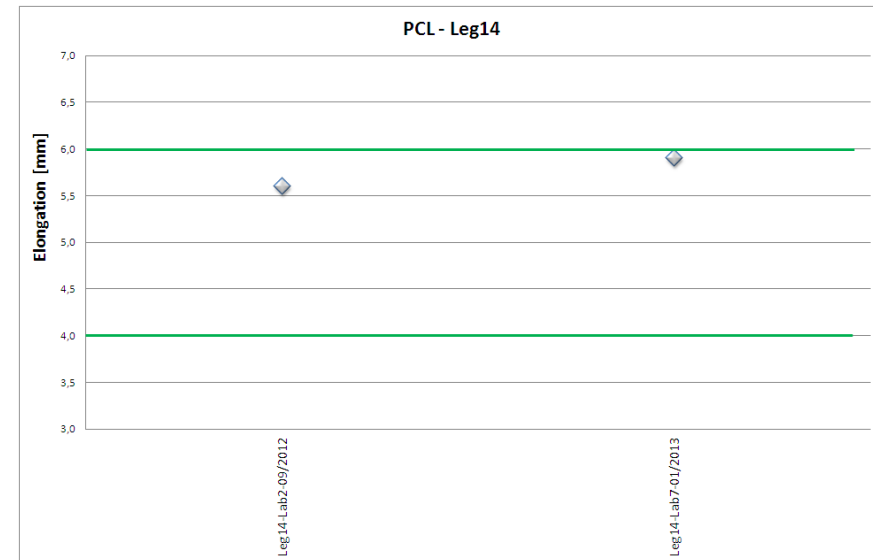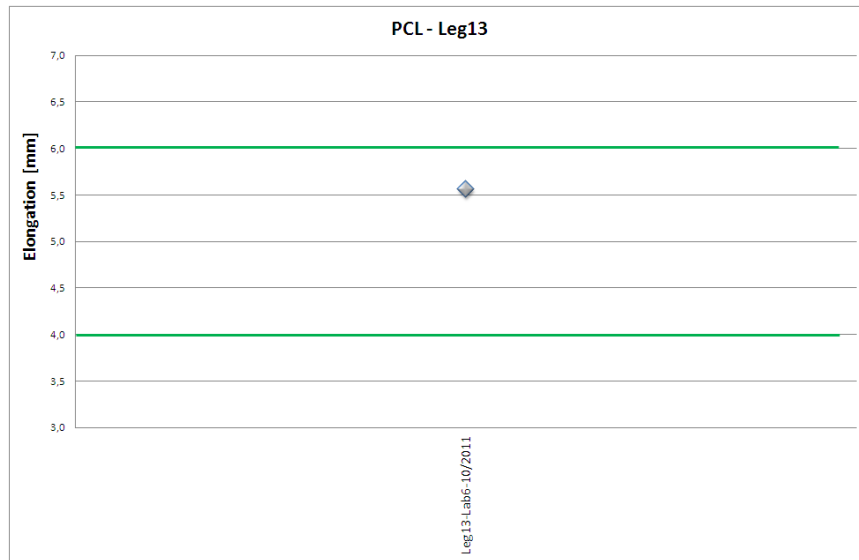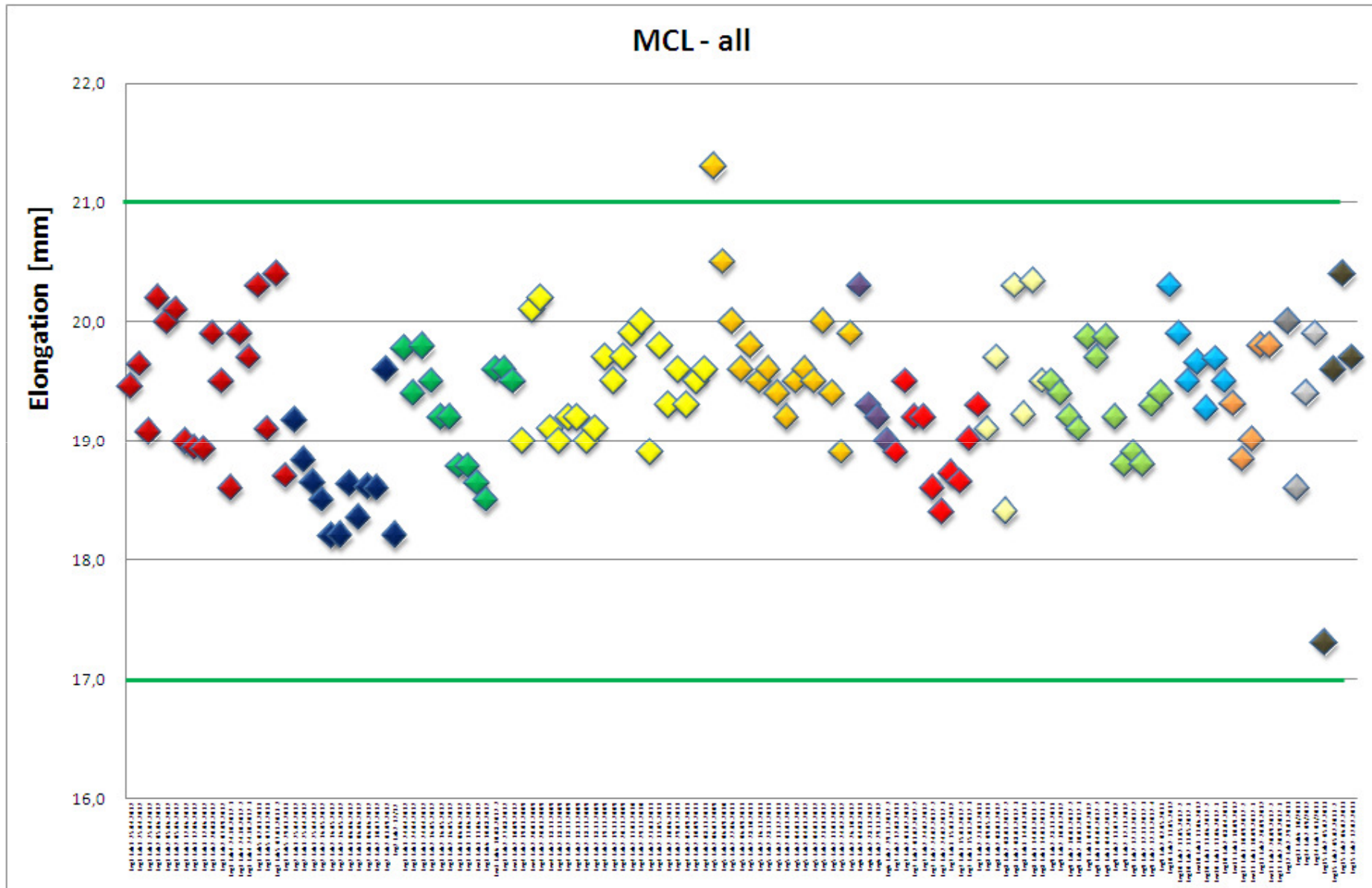
Results MCL - Inverse Tests

Mean Values - Inverse Tests
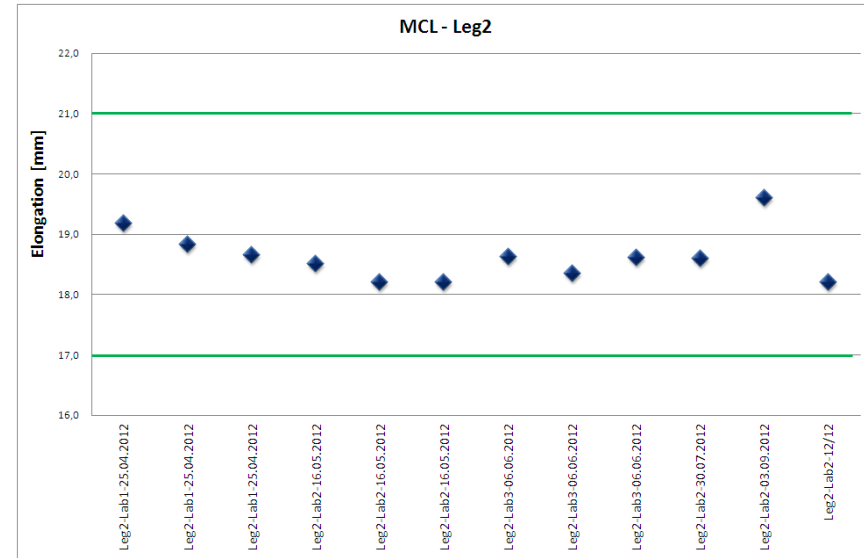
Mean Values - Inverse Tests

Summary

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- **Tibia 1: 4 * not met – 130 * met**
  - ➢ **Serial production legs: 4 * not met**

- **Tibia 2: 1 * not met – 133 * met**
  - ➢ **Prototypes: 1 * not met**

- **Tibia 3: 7 * not met – 127 * met**
  - ➢ **Serial production legs: 4 * not met**
  - ➢ **Prototypes: 3 * not met**

- **Tibia 4: 15 * not met – 119 * met**
  - ➢ **Serial production legs: 4 * not met**
  - ➢ **Prototypes: 11 * not met**

- **ACL: 26 * not met – 108 * met**
  - ➢ **Serial production legs: 5 * not met**
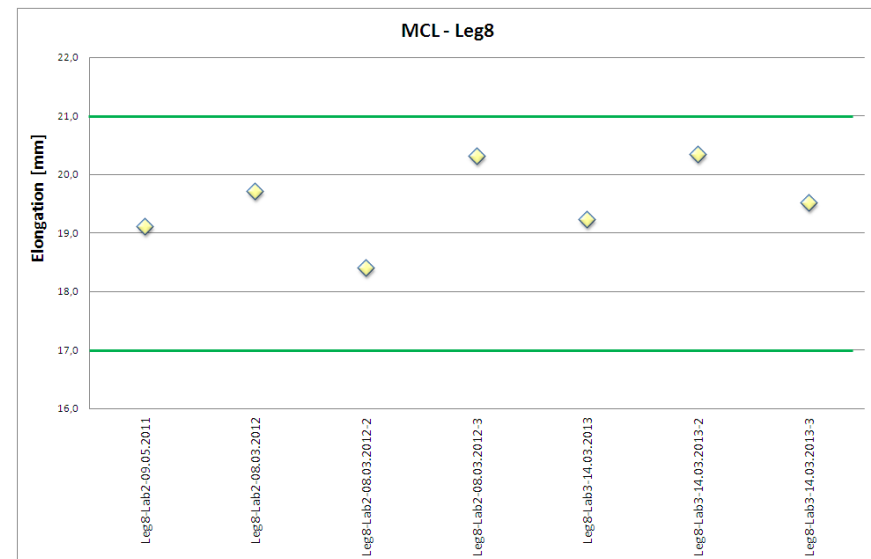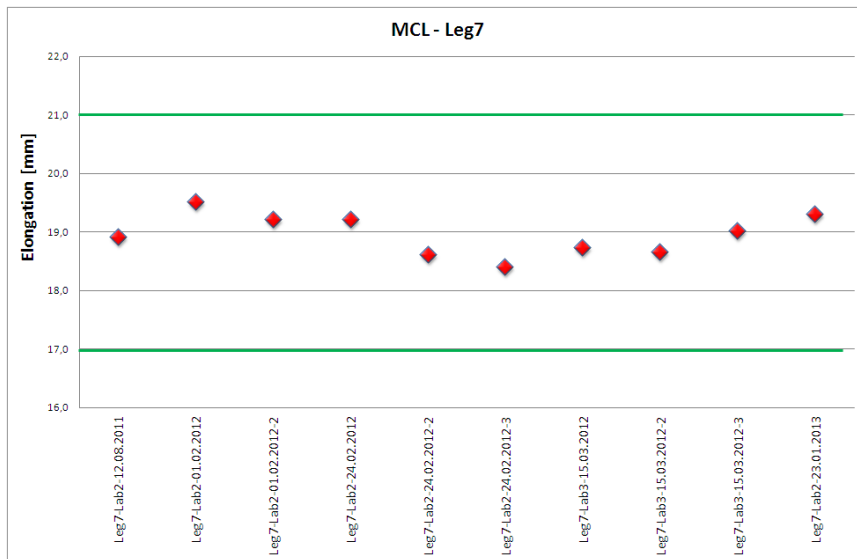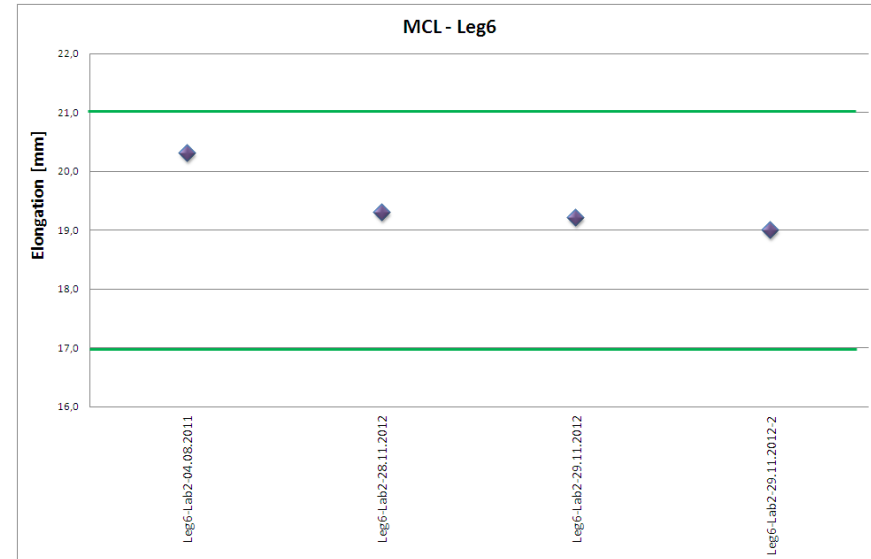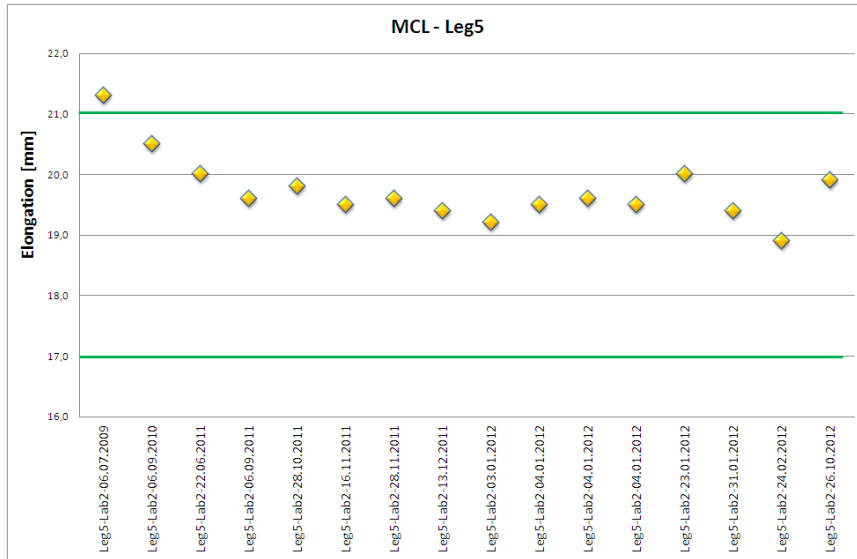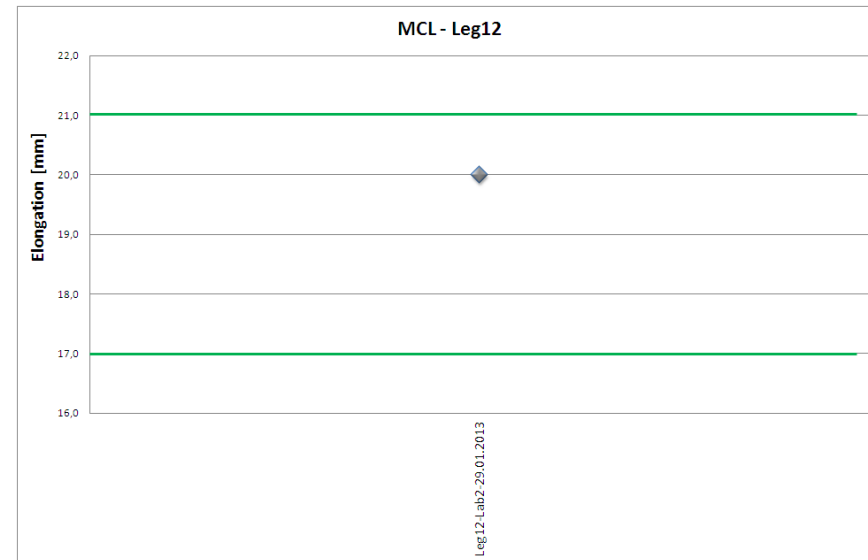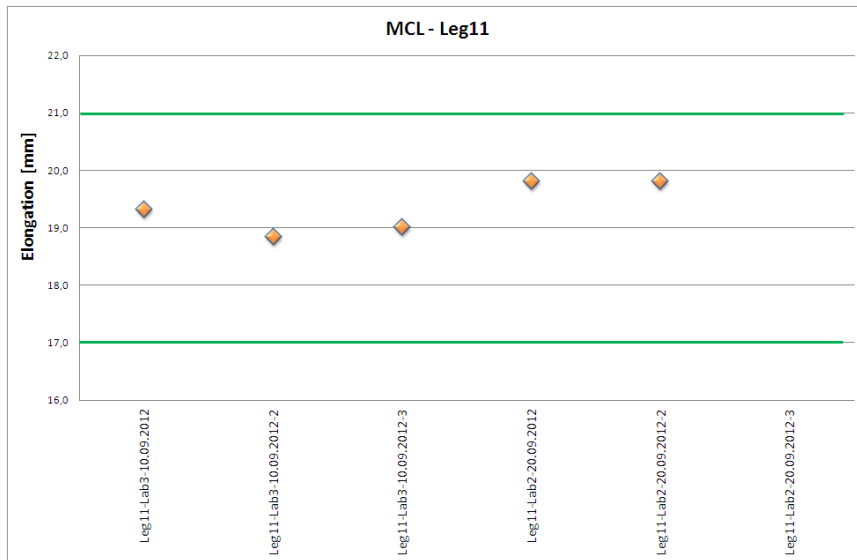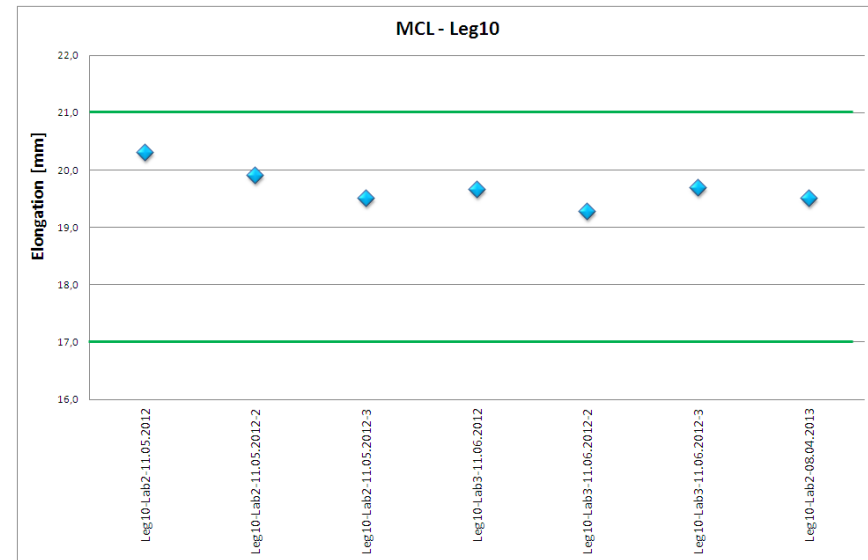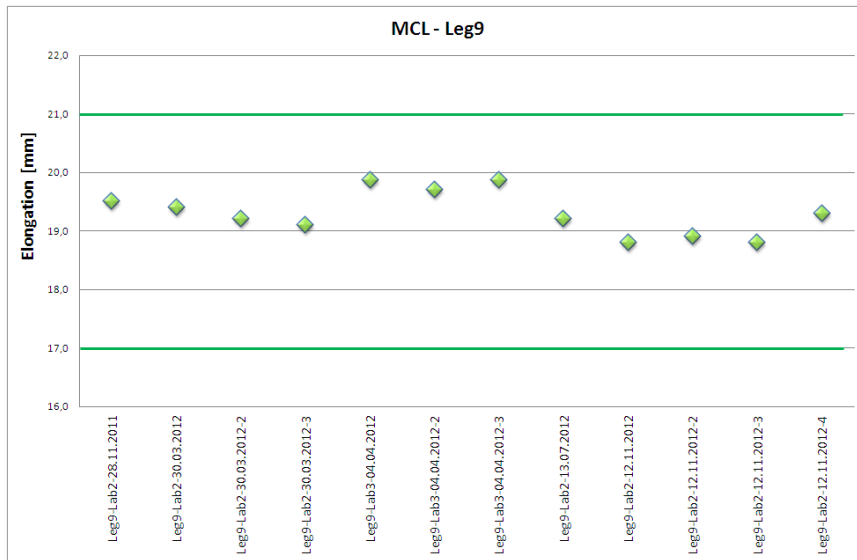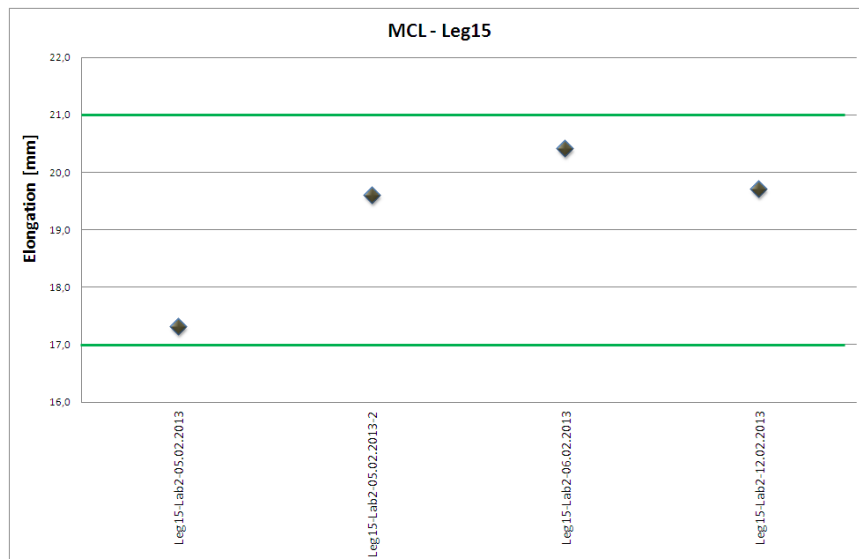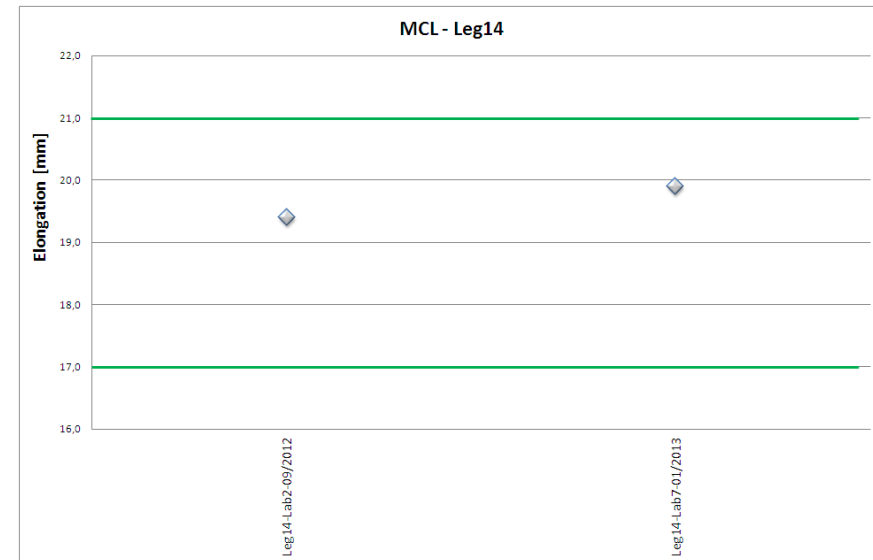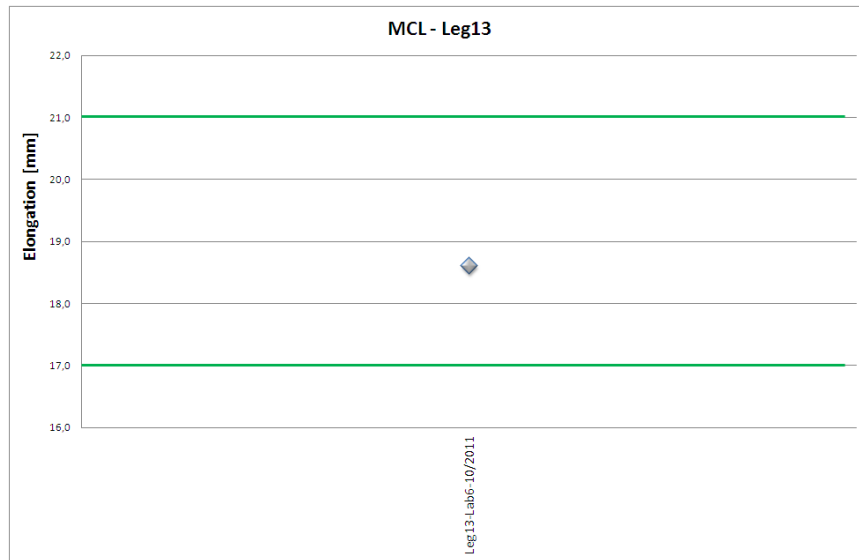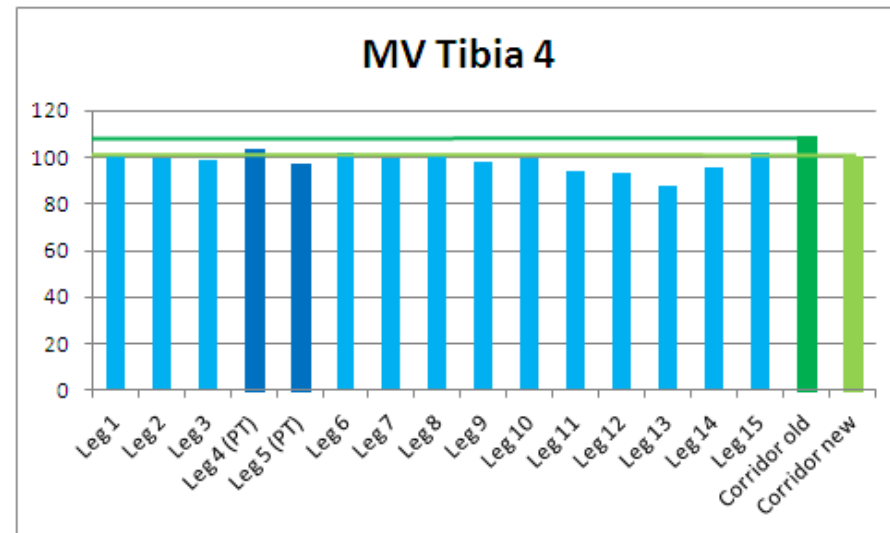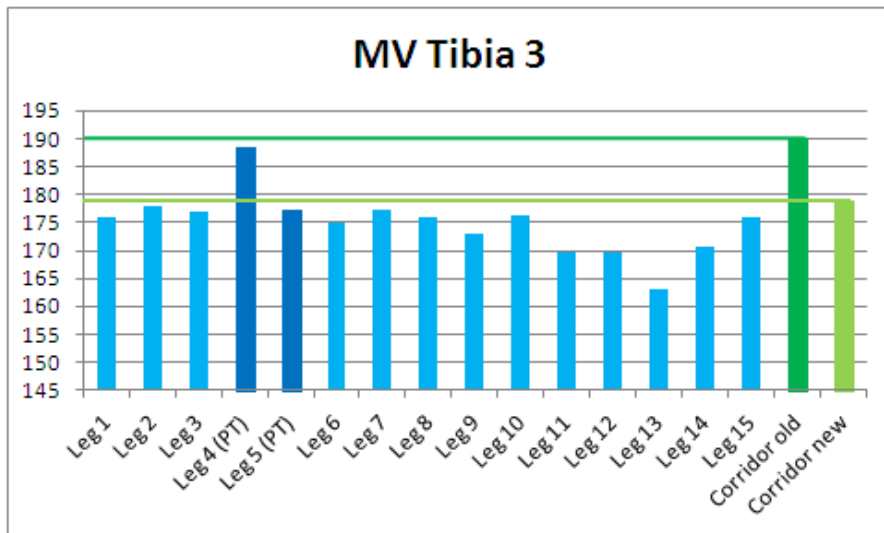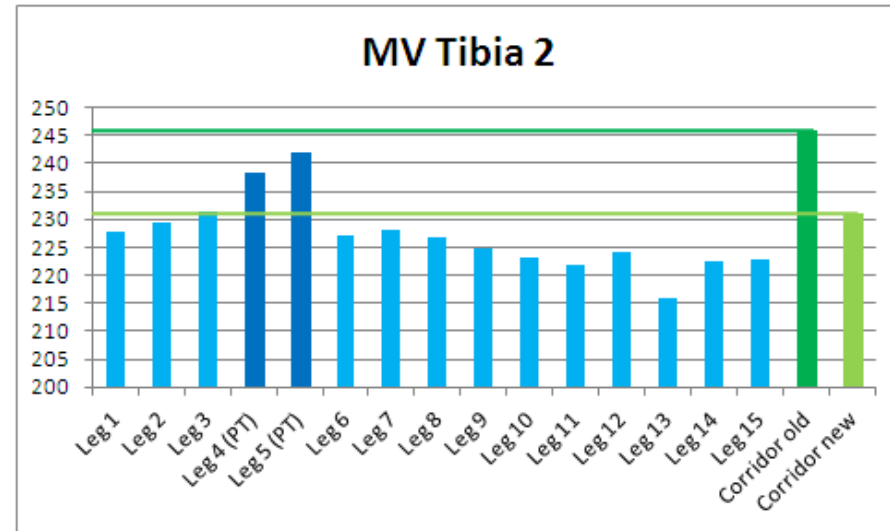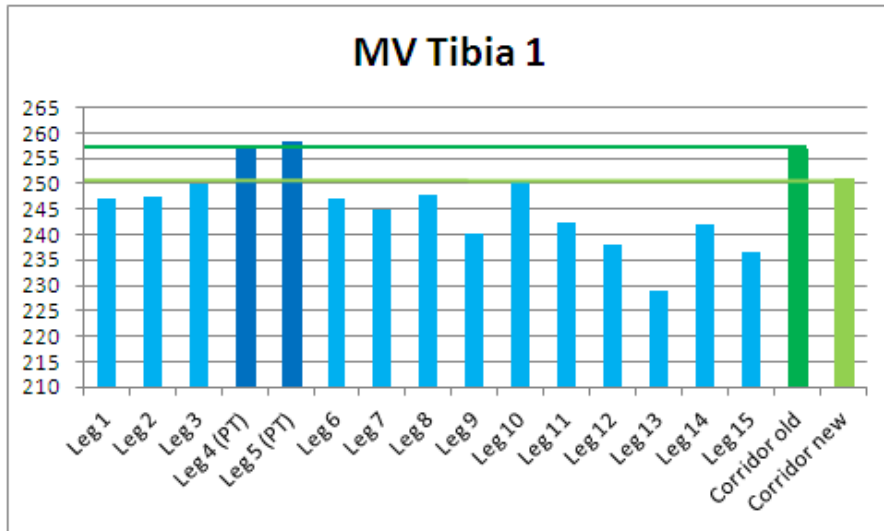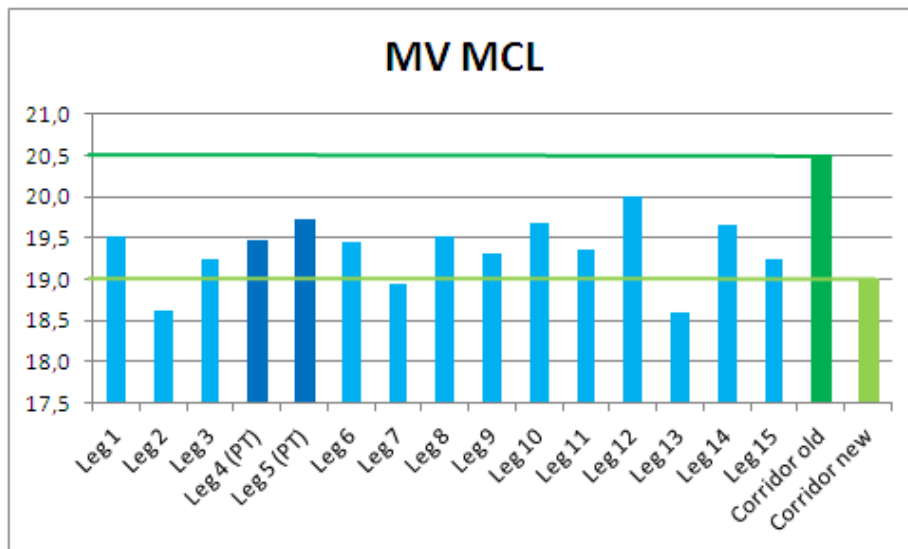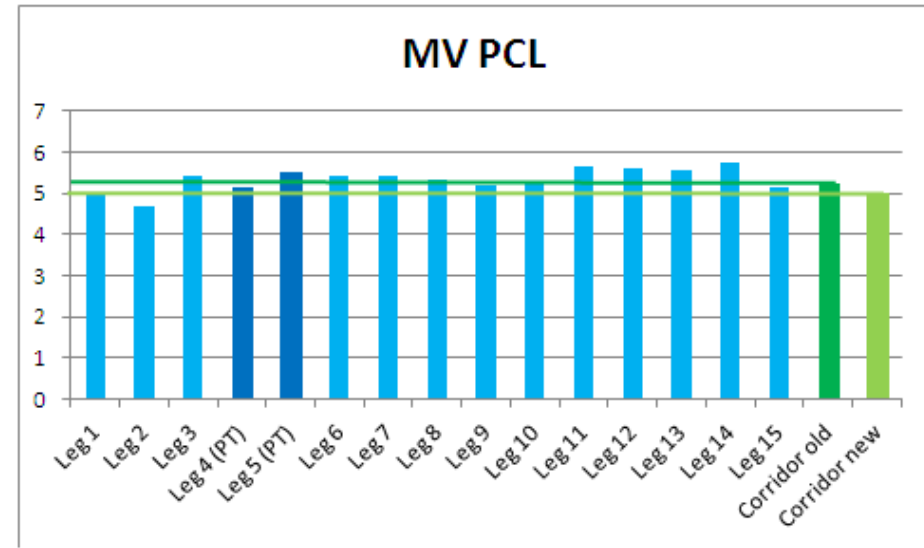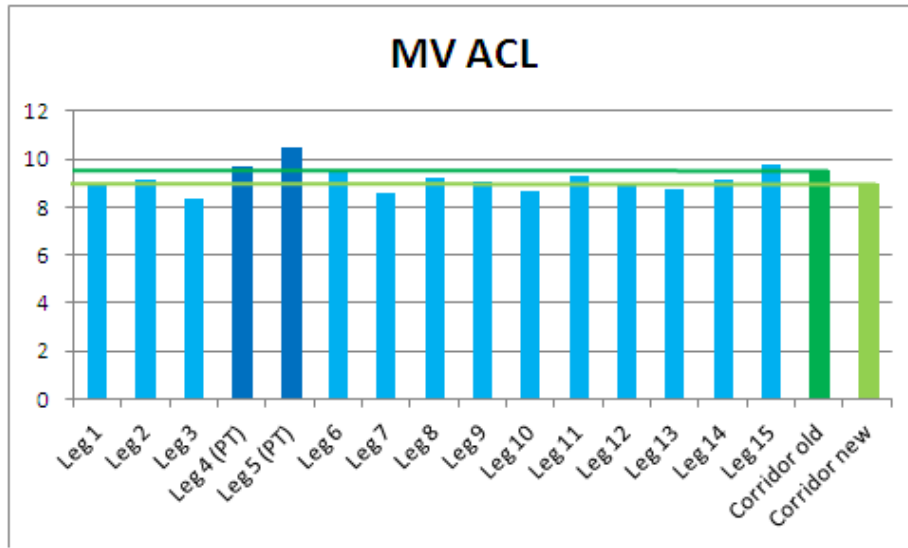 - ➢ **Prototypes: 21 * not met**

- **PCL: 4 * not met – 130 * met**
  - ➢ **Serial production legs: 1 * not met**
  - ➢ **Prototypes: 3 * not met**

- **MCL: 1 * not met – 133 * met**
  - ➢ **Prototypes: 1 * not met**

Summary:

- **95 tests passed inverse requirements**
  - ➢ **84 w/ serial production legs**
  - ➢ **11 w / prototypes**

- **39 tests failed inverse requirements (due to one or more segments not meeting the corresponding corridor)**
  - ➢ **13 w/ serial production legs**
  - ➢ **26 w/ prototypes**

- **Pass / fail ratio**
  - ➢ **71% for all legforms**
  - ➢ **87 % for serial production legs**
  - ➢ **30 % for prototypes**