

Collation of FlexPLI Inverse Certification Test Results

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

Oliver Zander
Bundesanstalt für Straßenwesen

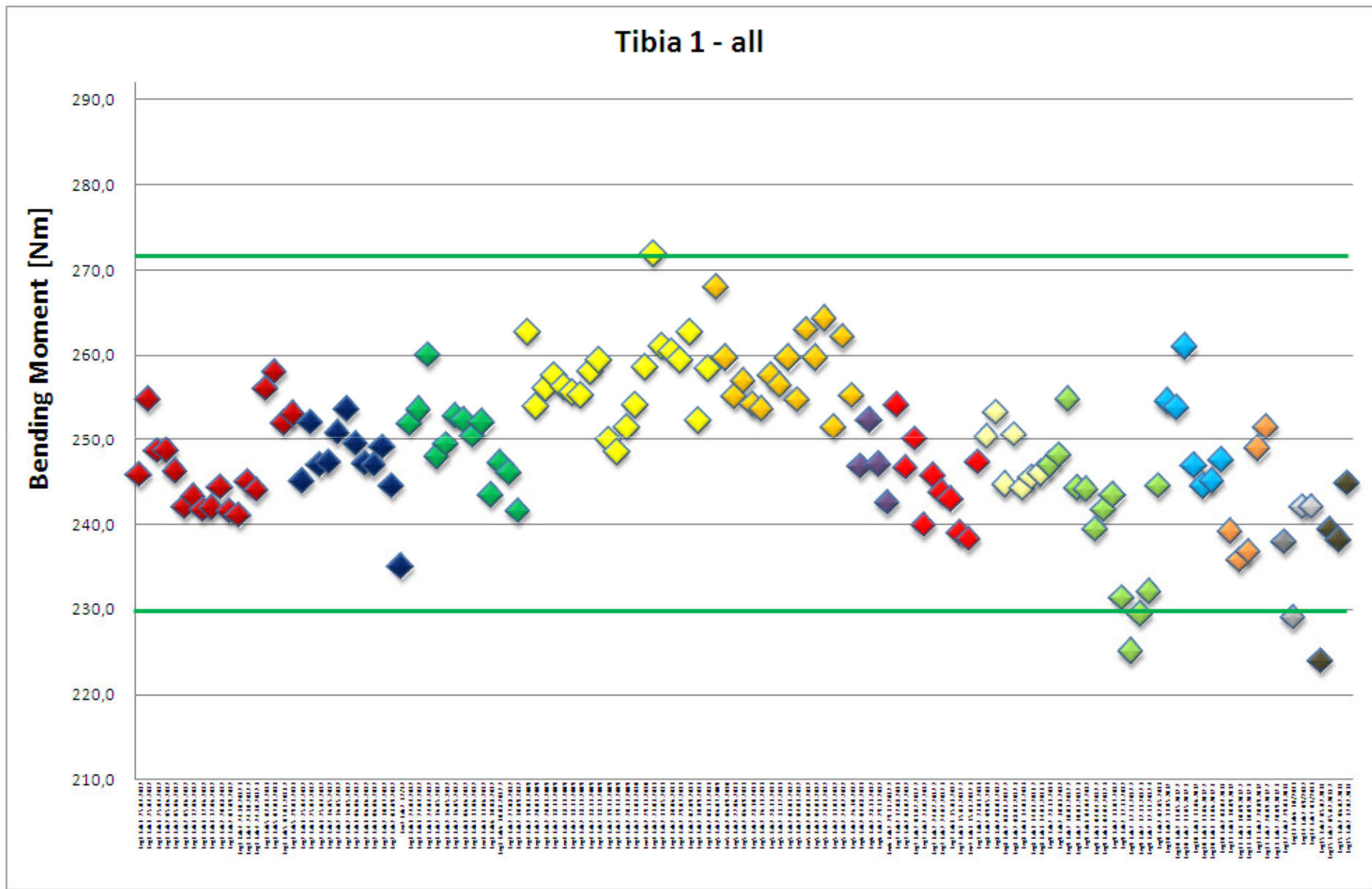
Bundesanstalt für Straßenwesen
(Federal Highway Research Institute)

- **15 impactors**
 - **2 prototypes (leg 4 & leg 5)**
 - **13 serial production legs**

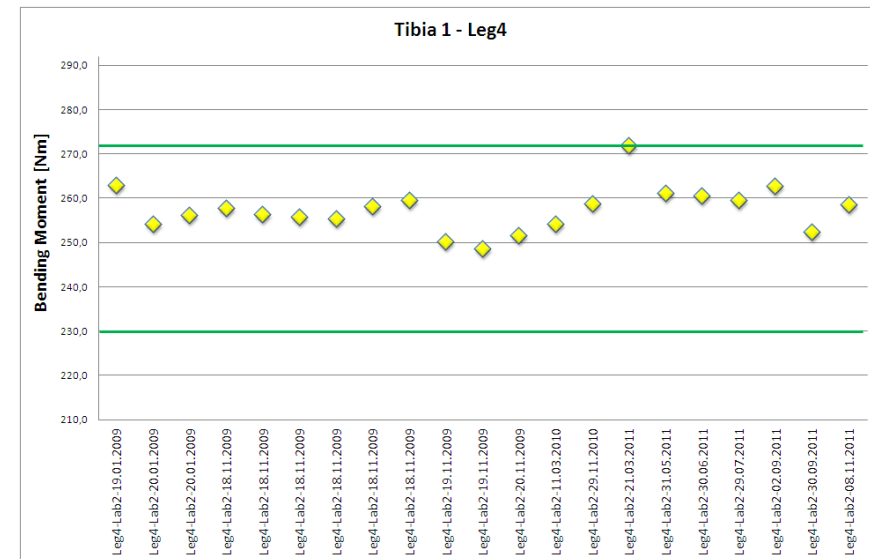
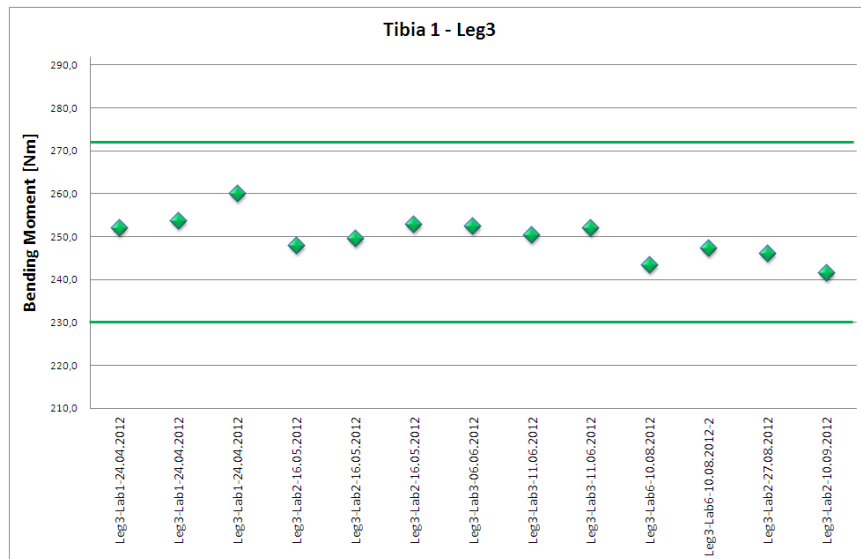
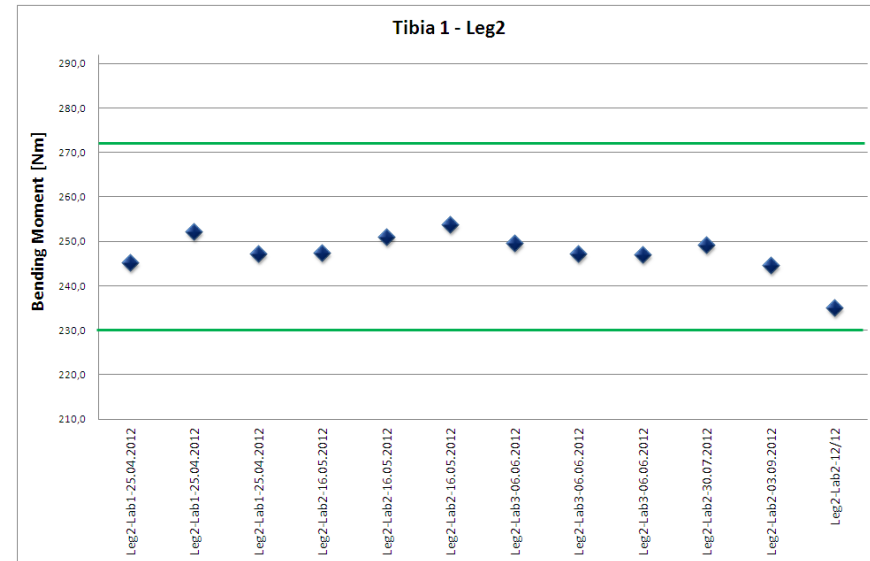
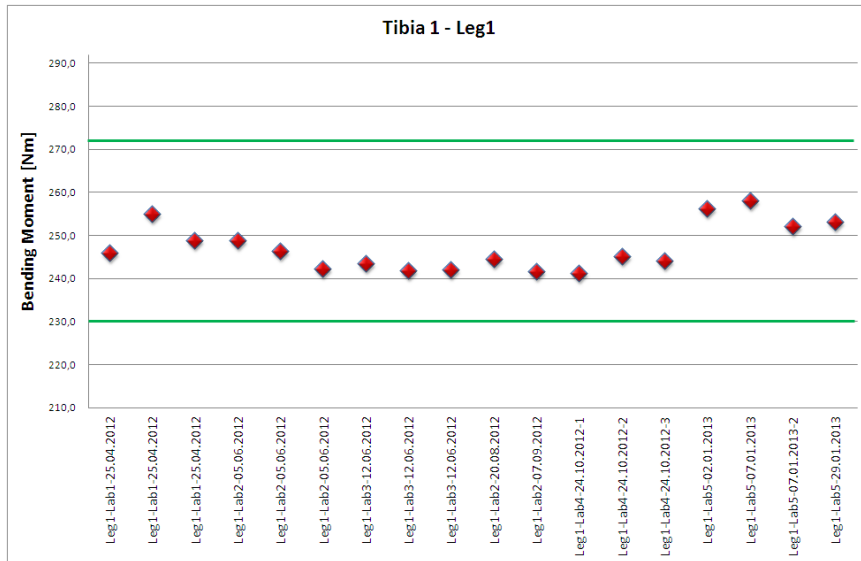
- **7 test labs**

- **134 tests**
 - **37 tests w/ prototypes**
 - **97 tests w/ serial production legs**

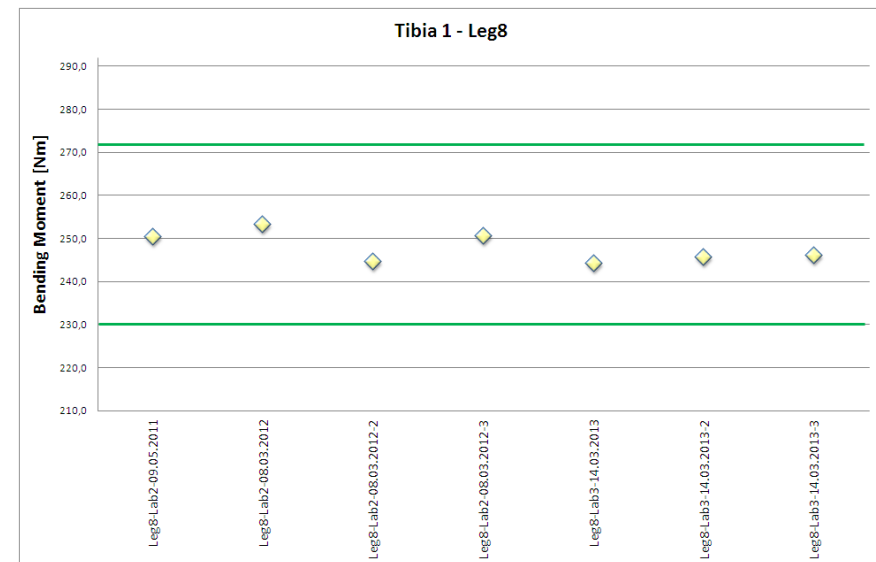
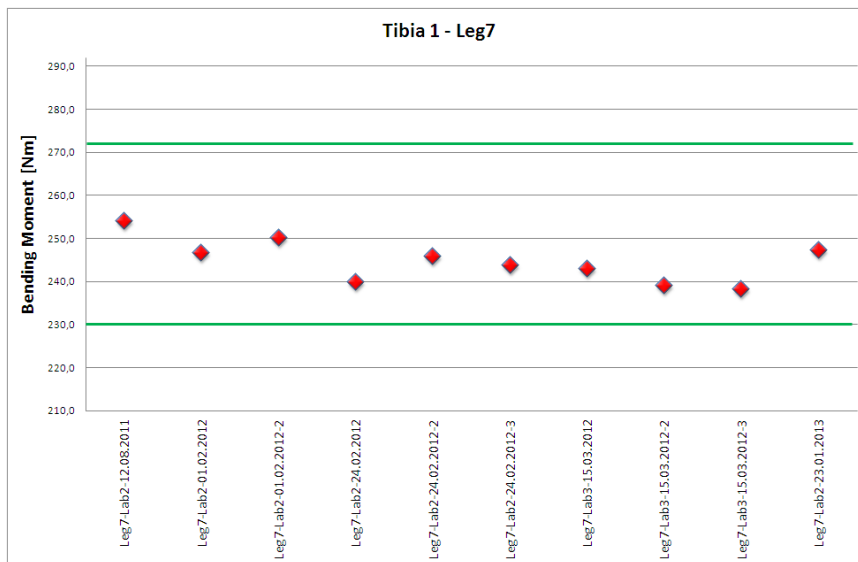
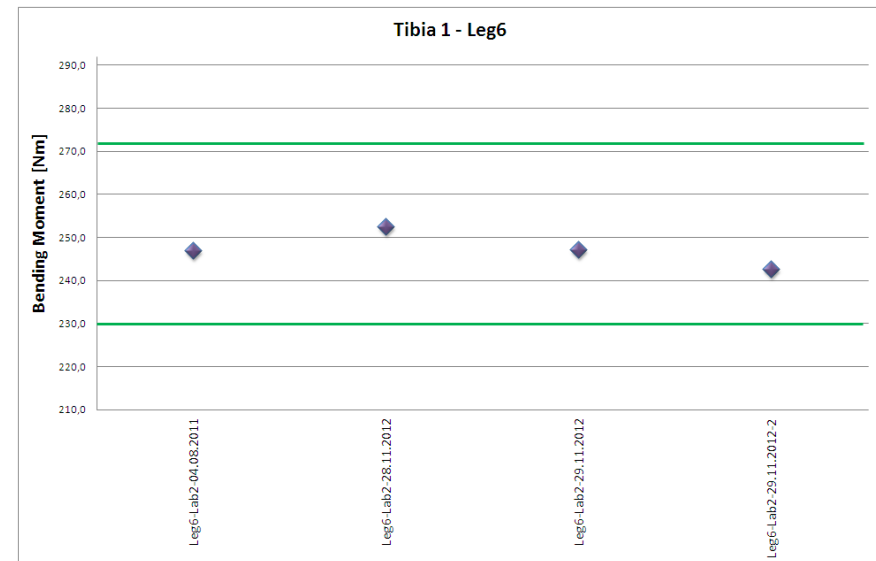
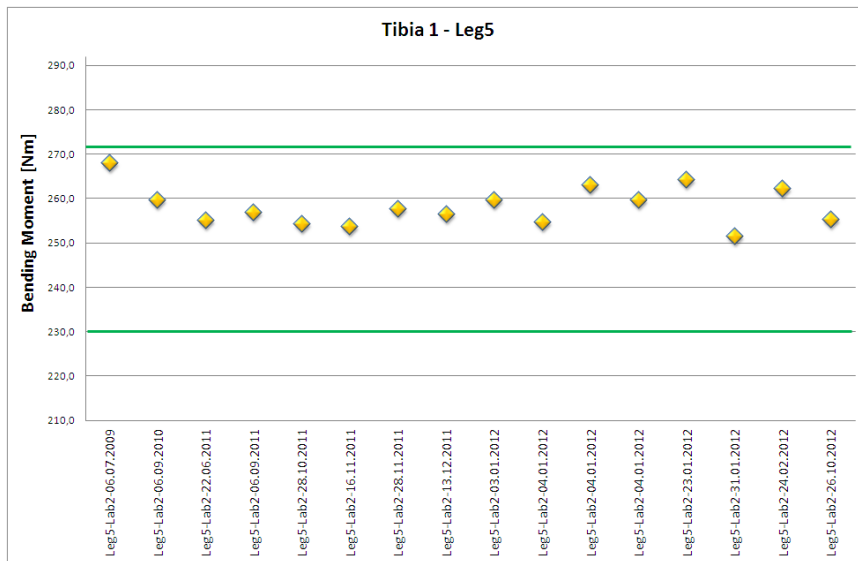
Results Overview - Inverse Tests T1



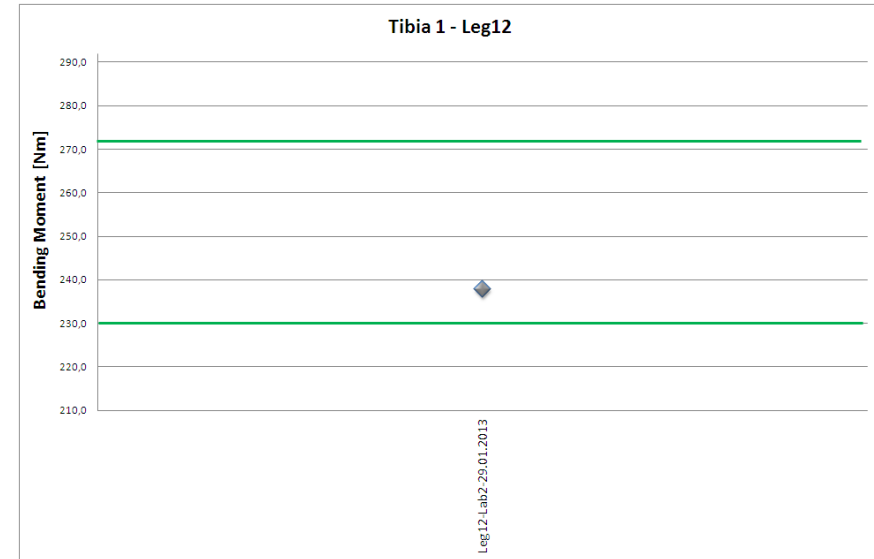
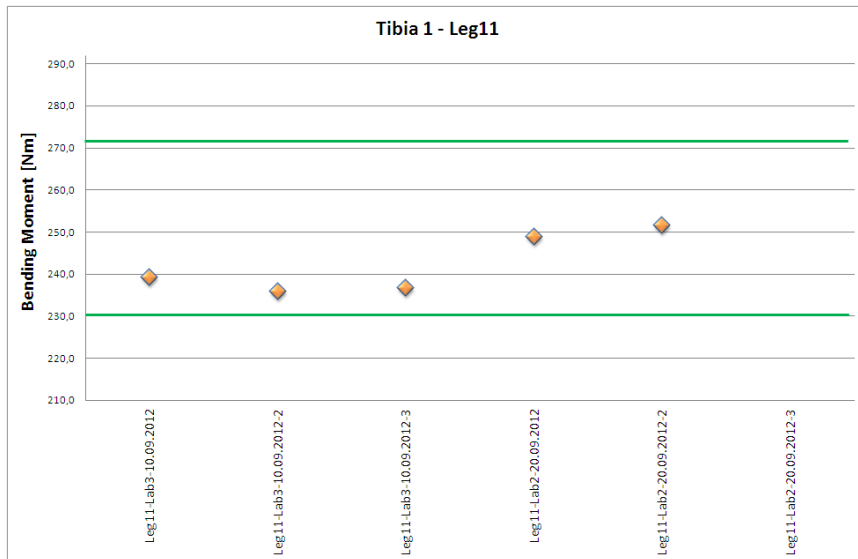
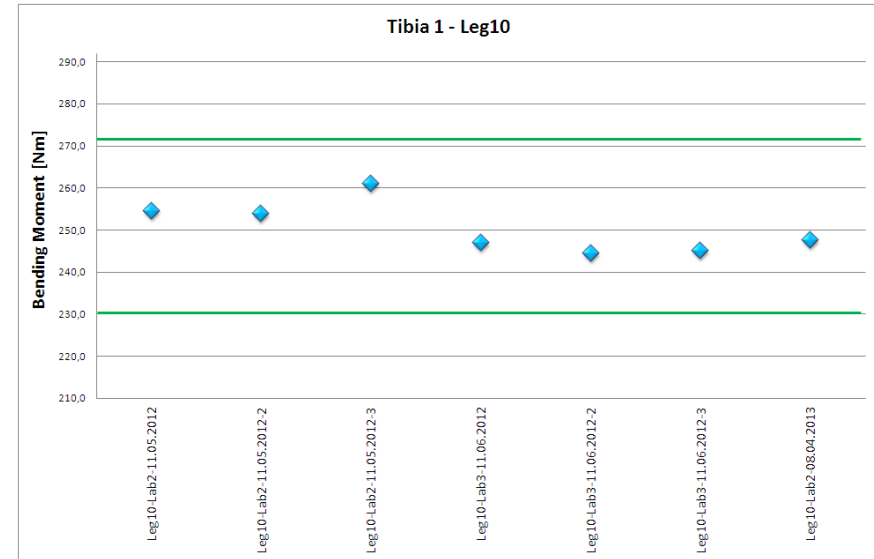
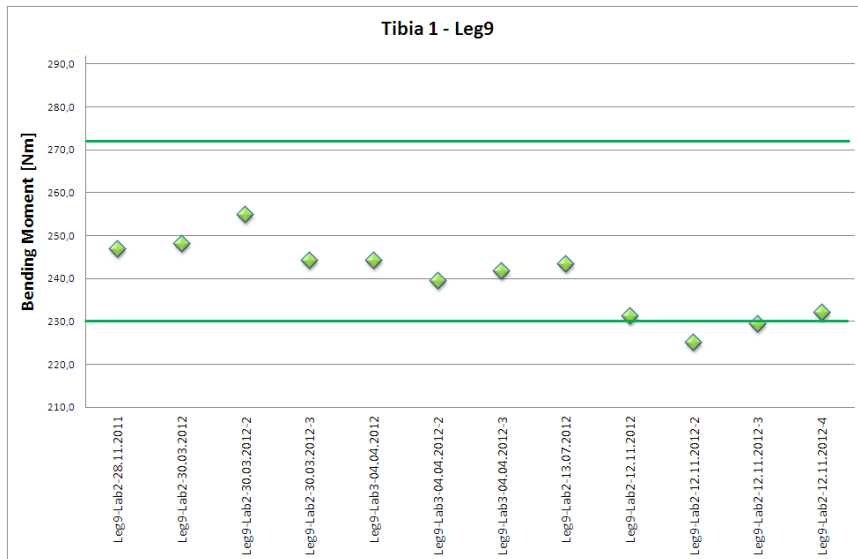
Results Tibia 1 - Inverse Tests



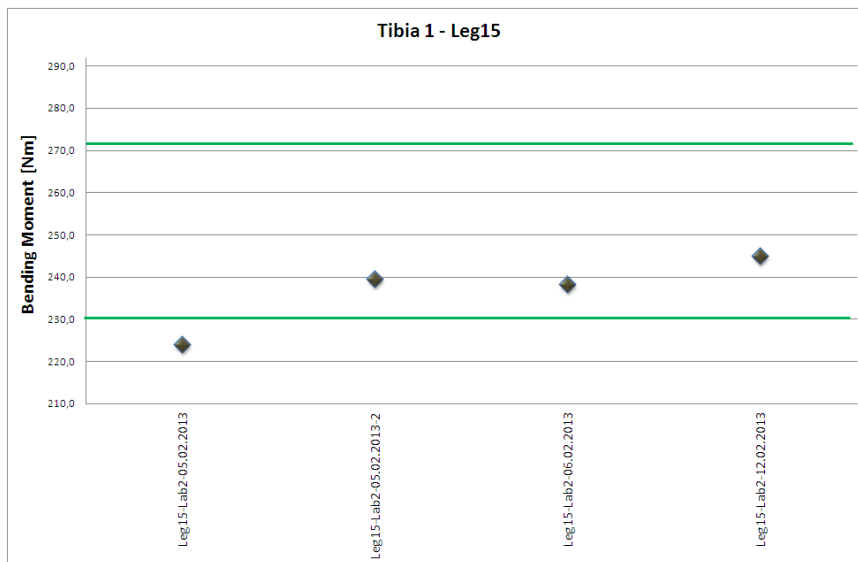
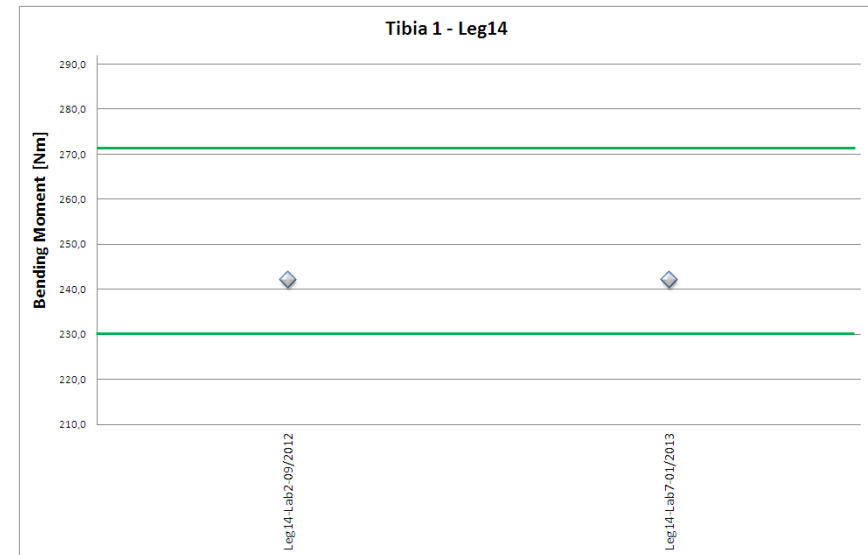
Results Tibia 1 - Inverse Tests



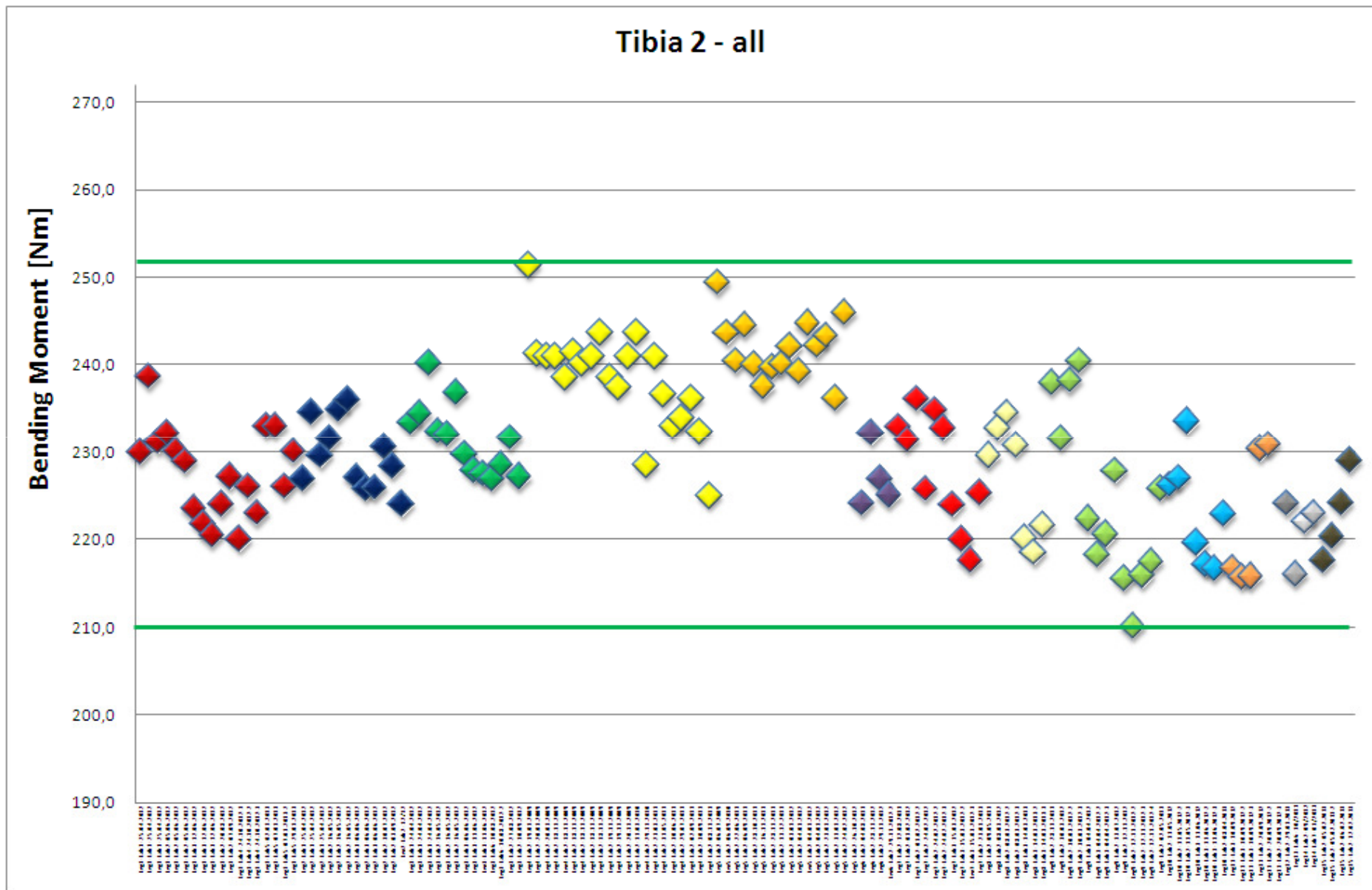
Results Tibia 1 - Inverse Tests



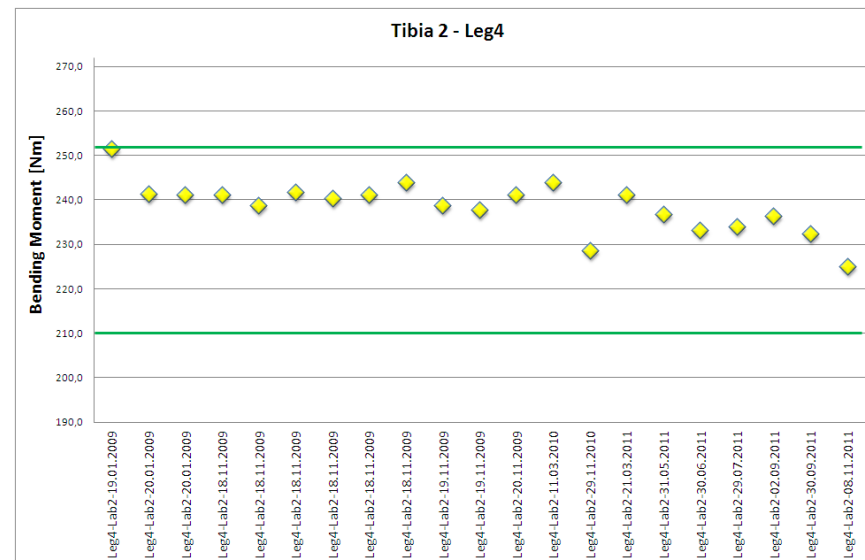
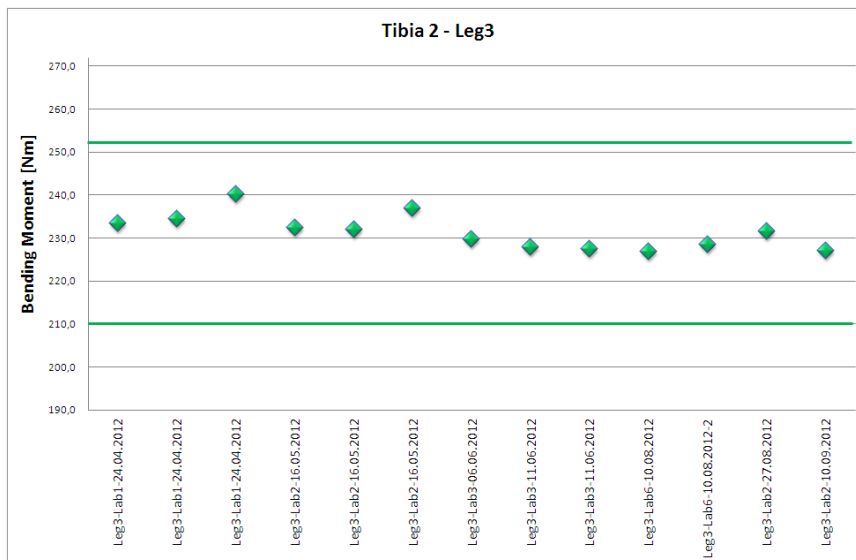
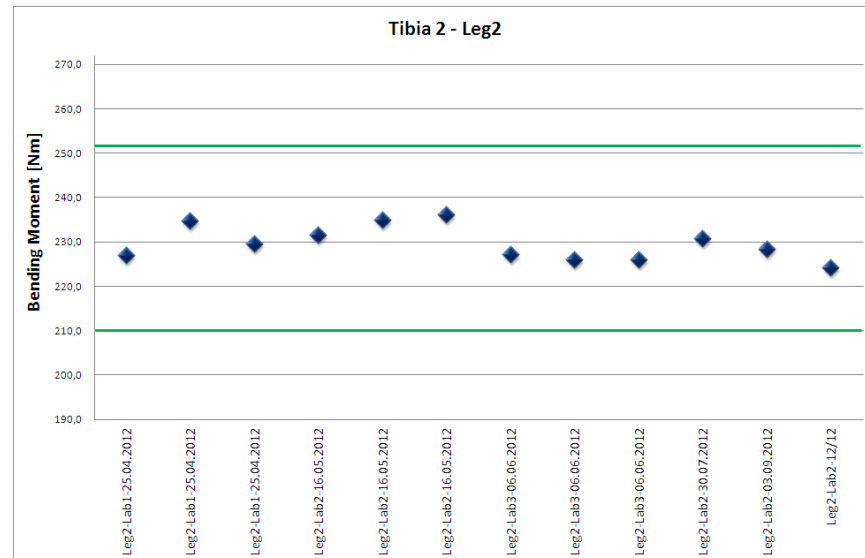
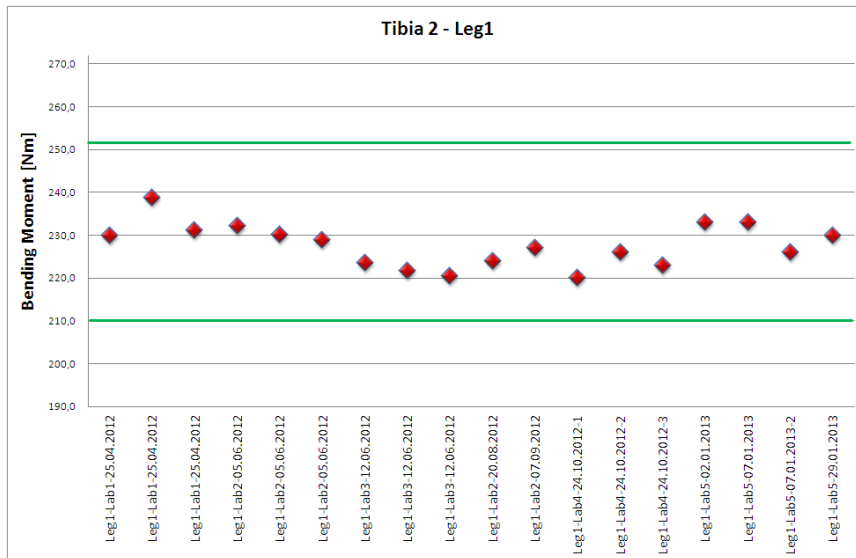
Results Tibia 1 - Inverse Tests



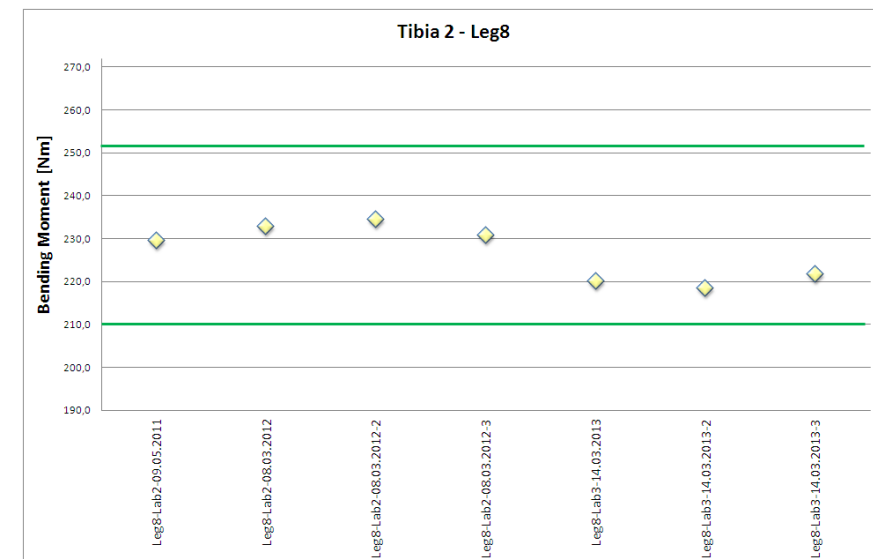
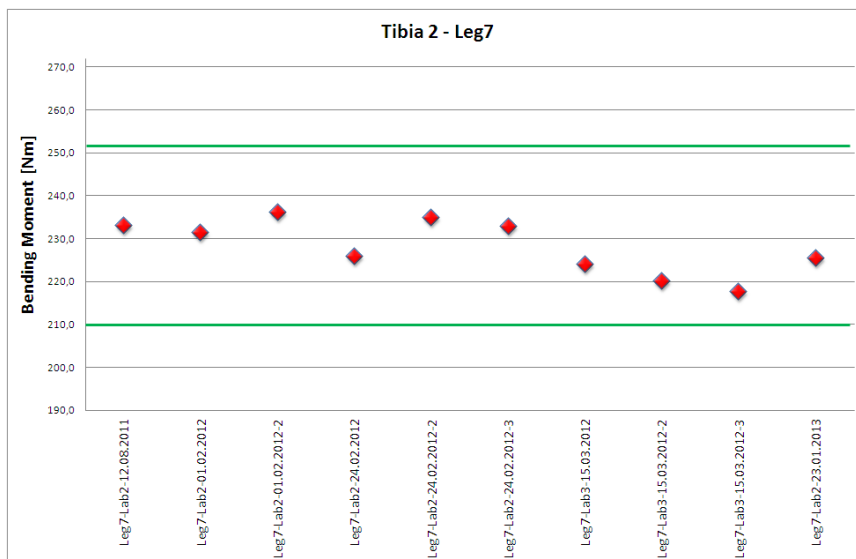
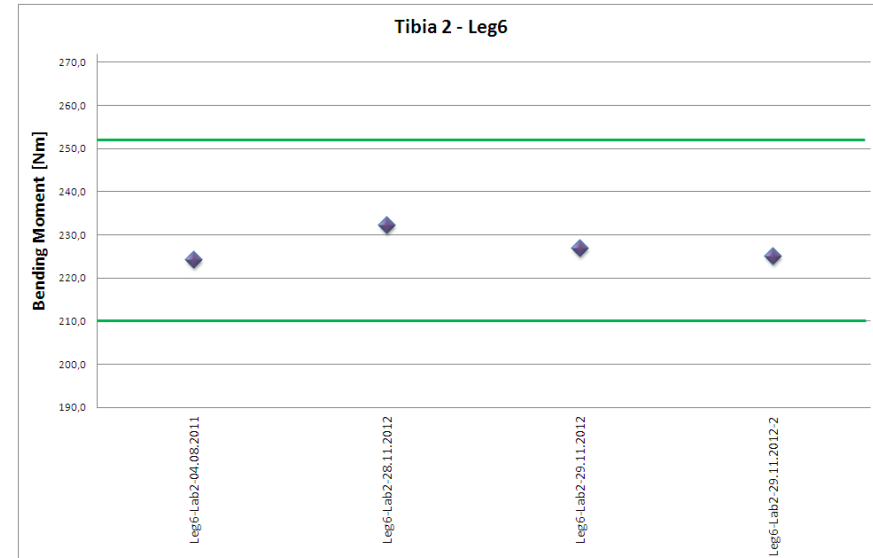
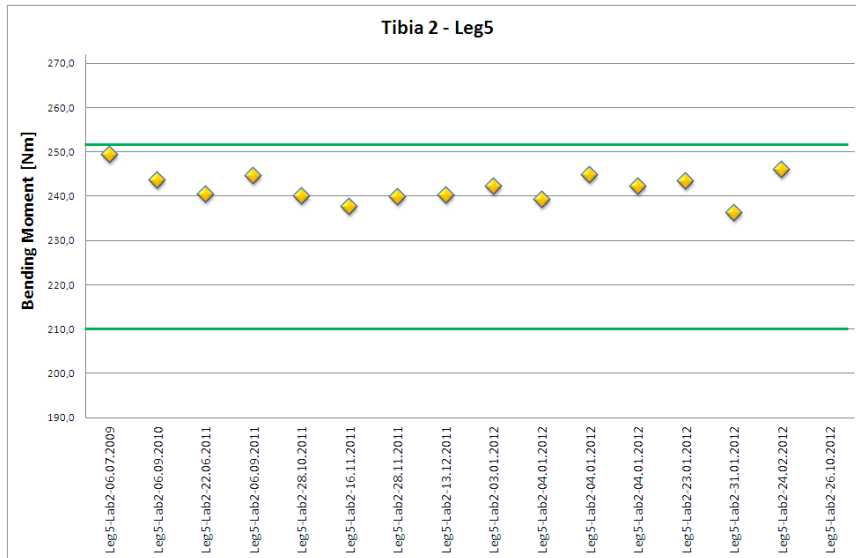
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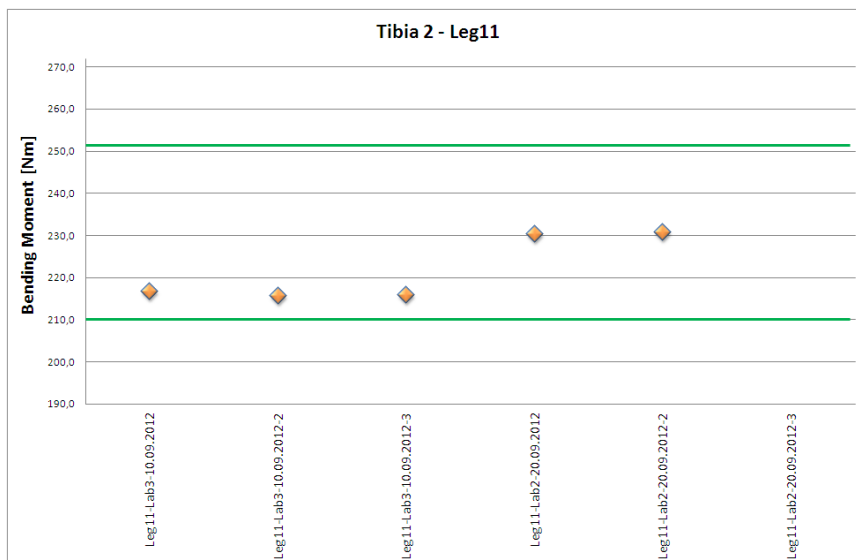
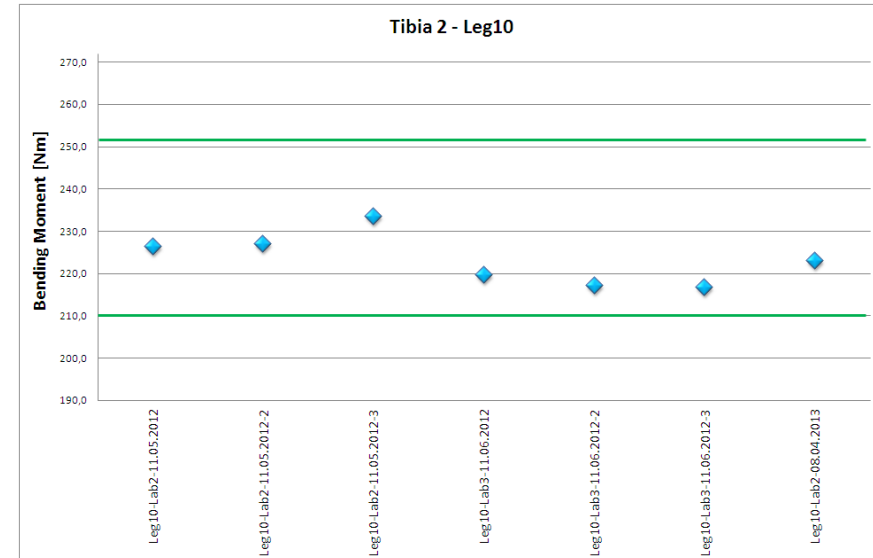
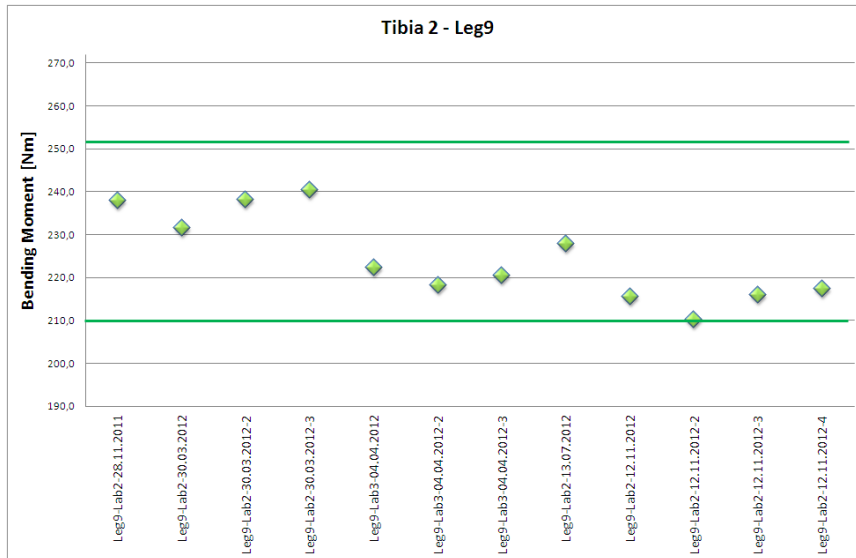
Results Tibia 2 - Inverse Tests



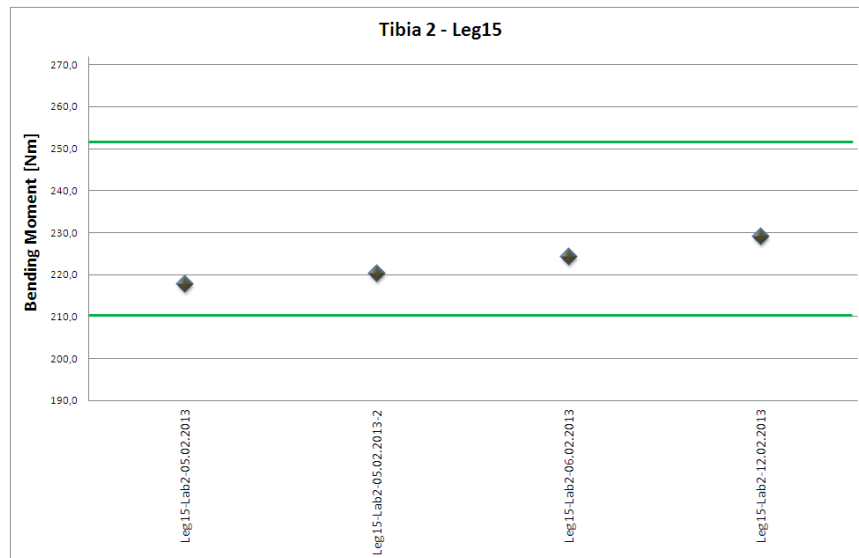
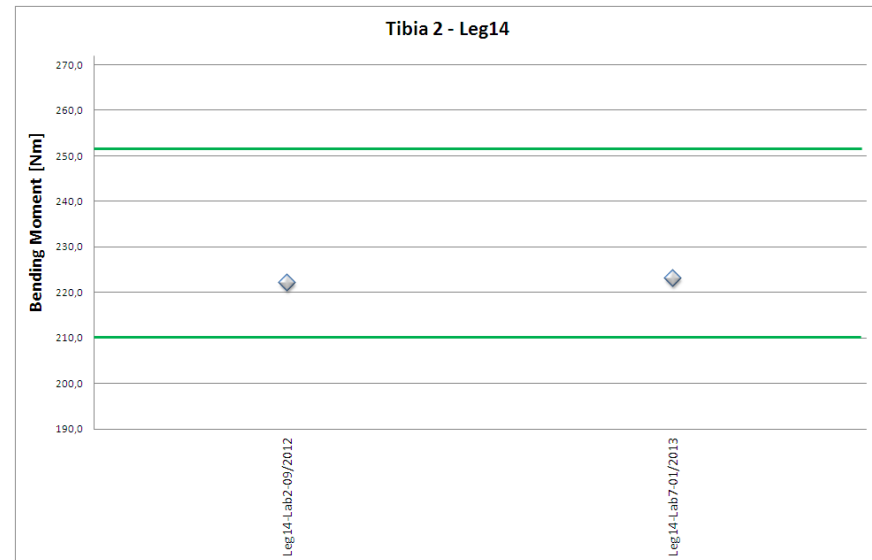
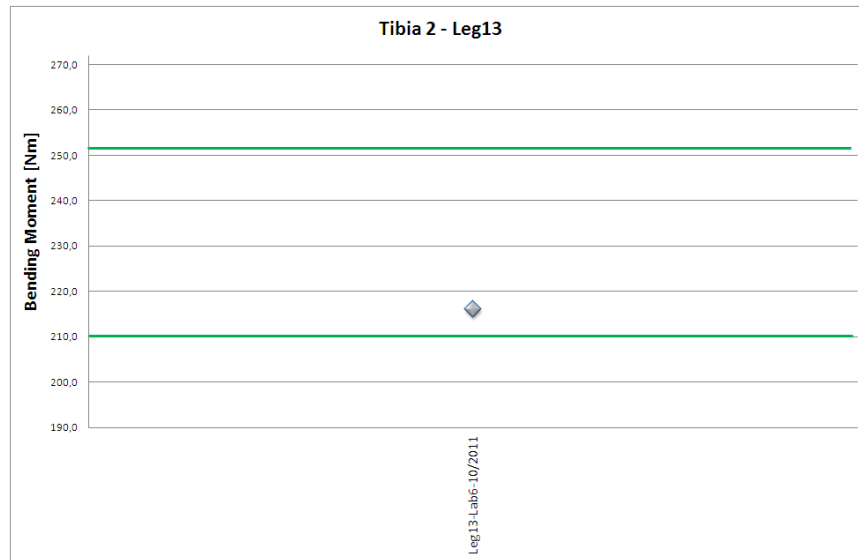
Results Tibia 2 - Inverse Tests



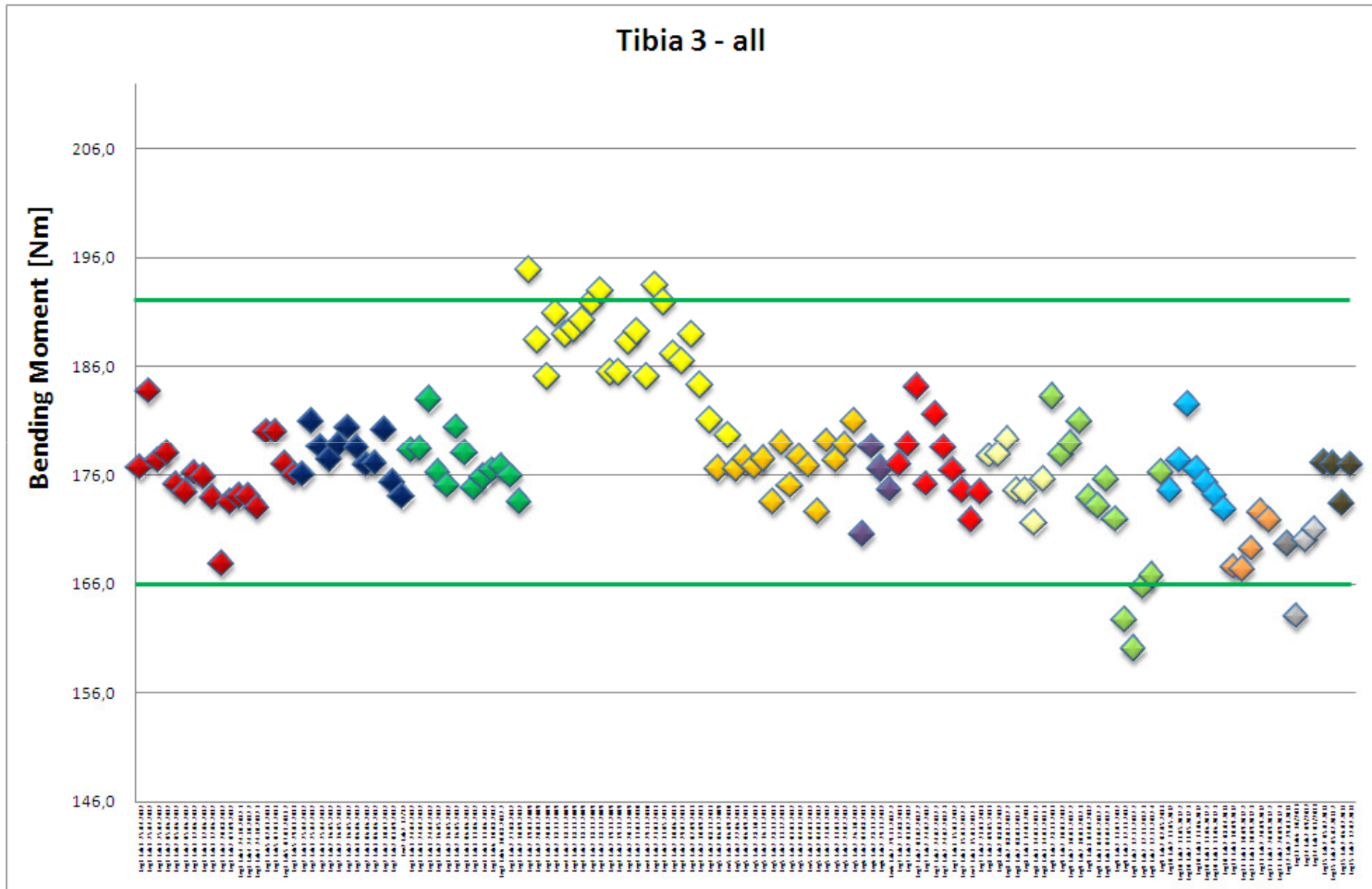
Results Tibia 2 - Inverse Tests



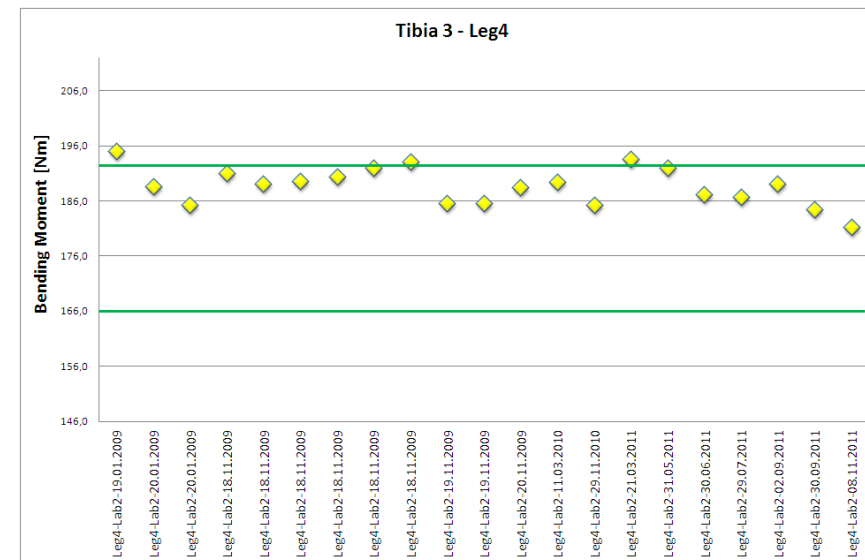
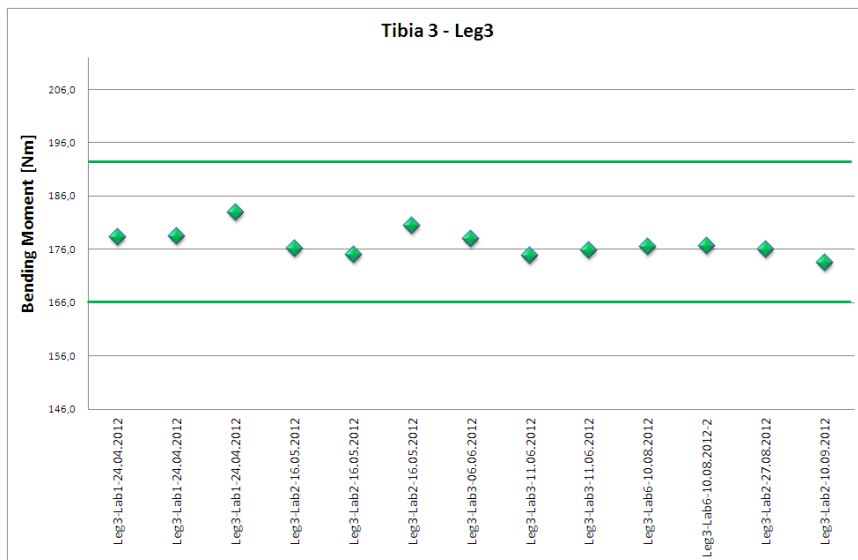
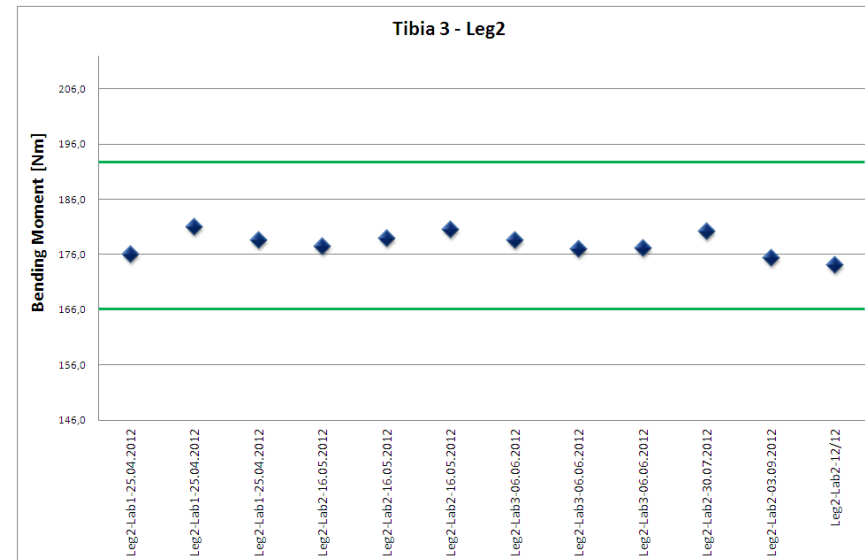
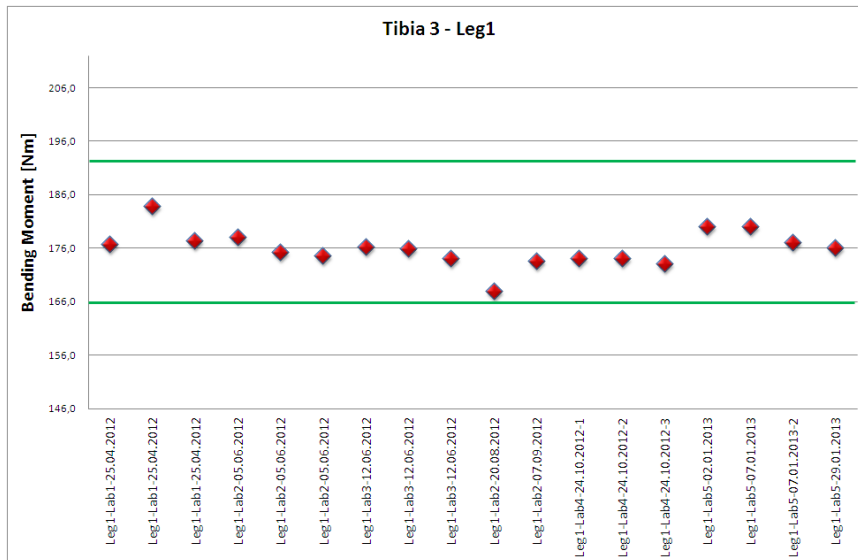
Results Tibia 2 - Inverse Tests



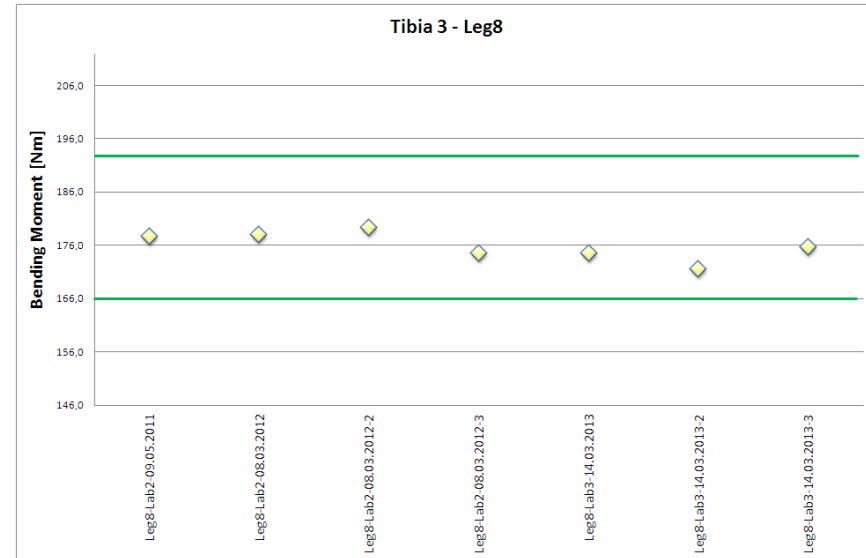
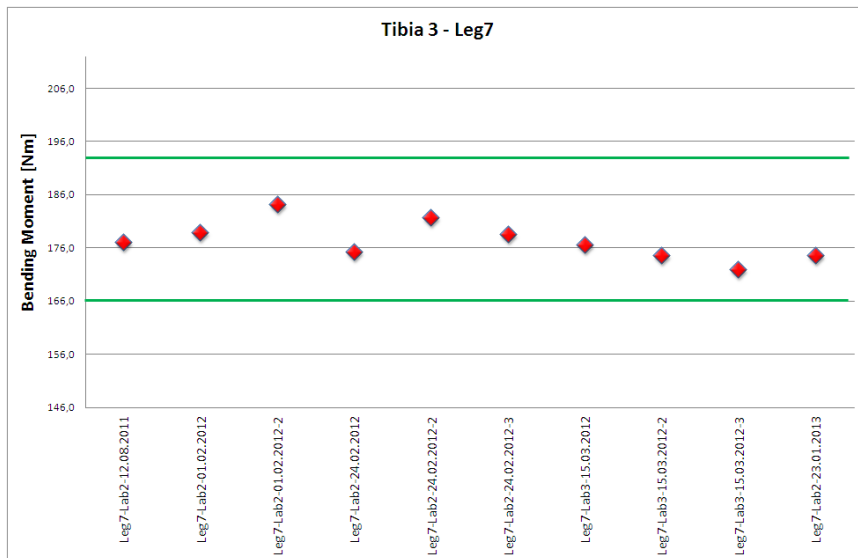
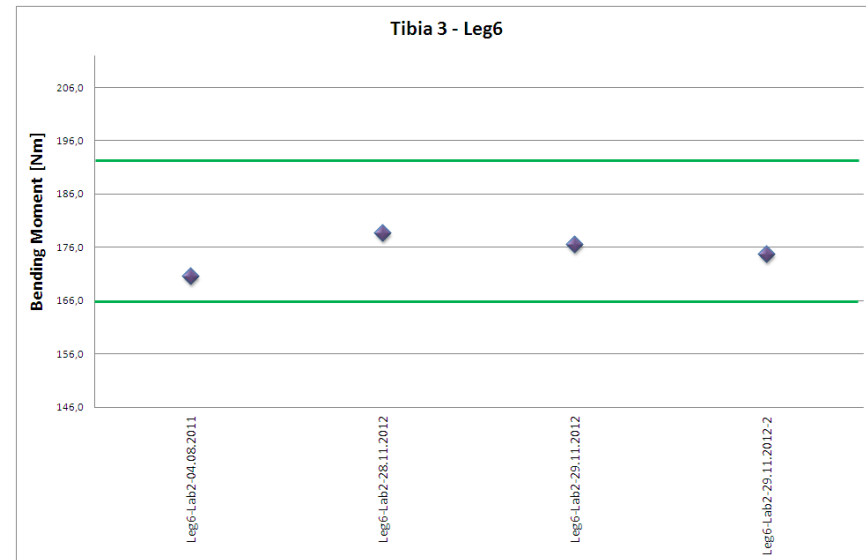
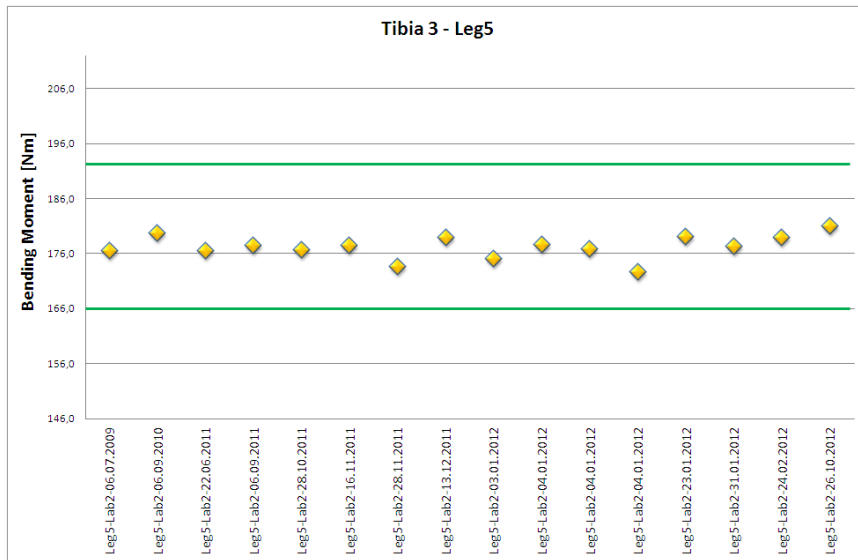
Results Overview - Inverse Tests T3



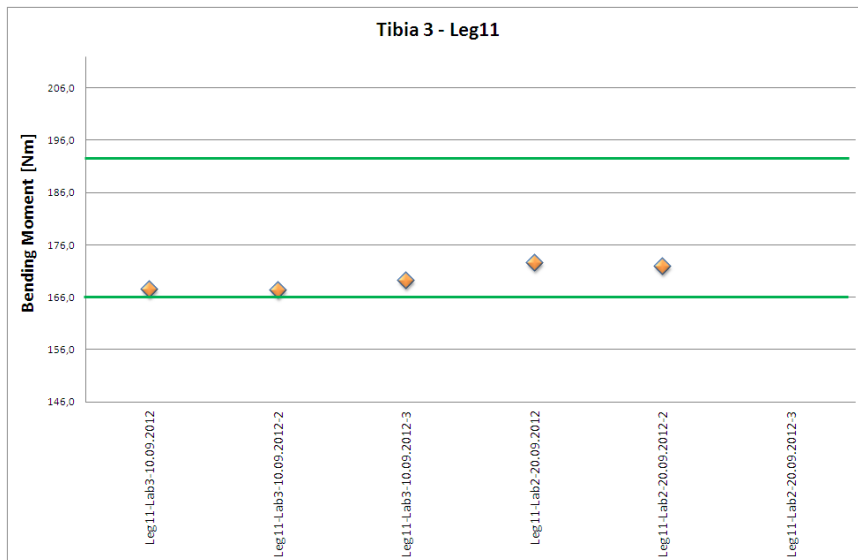
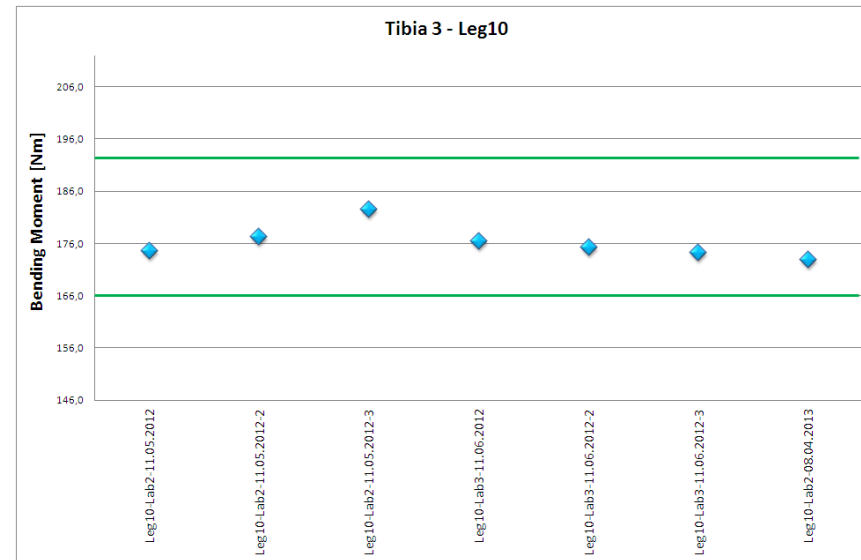
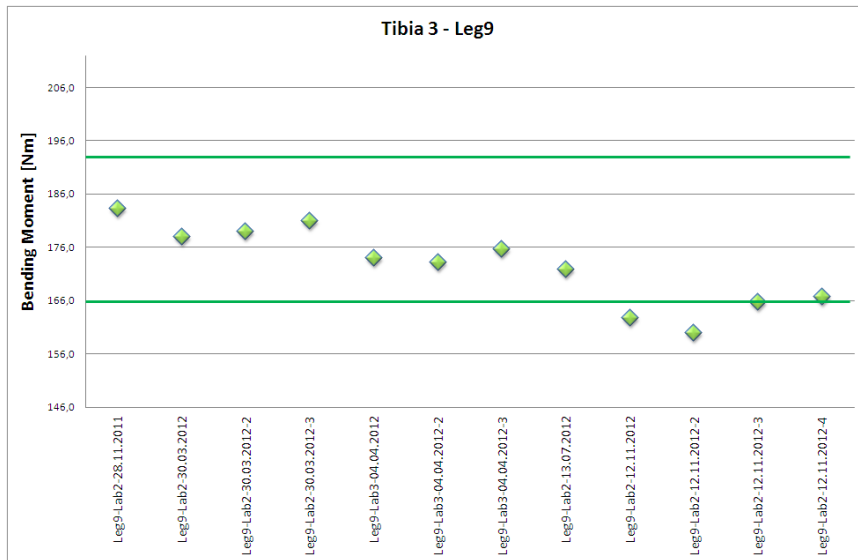
Results Tibia 3 - Inverse Tests



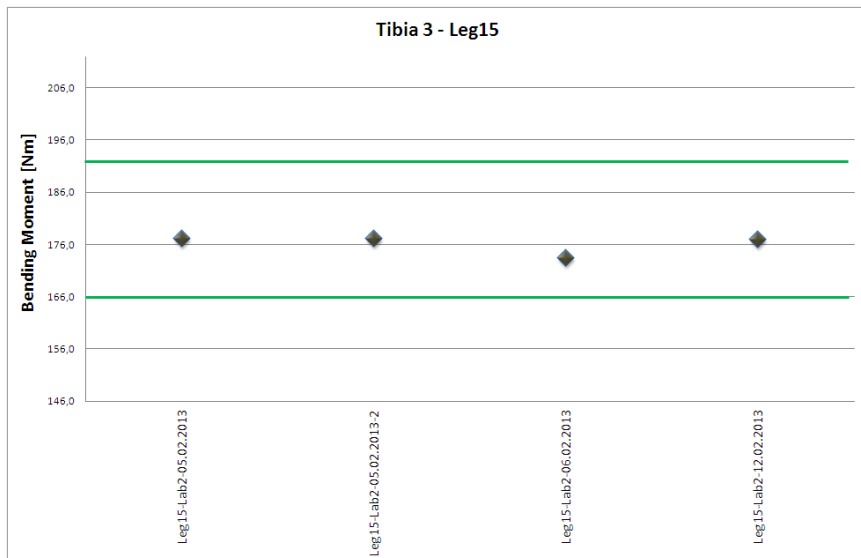
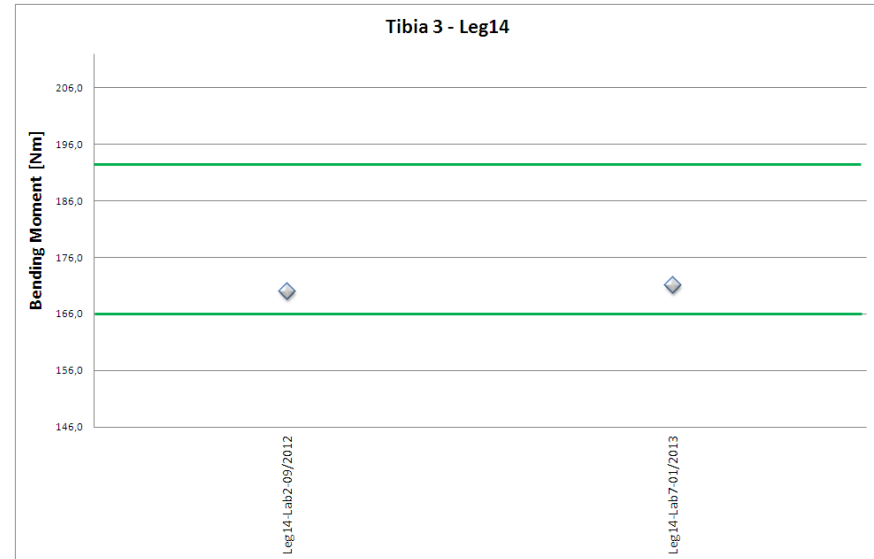
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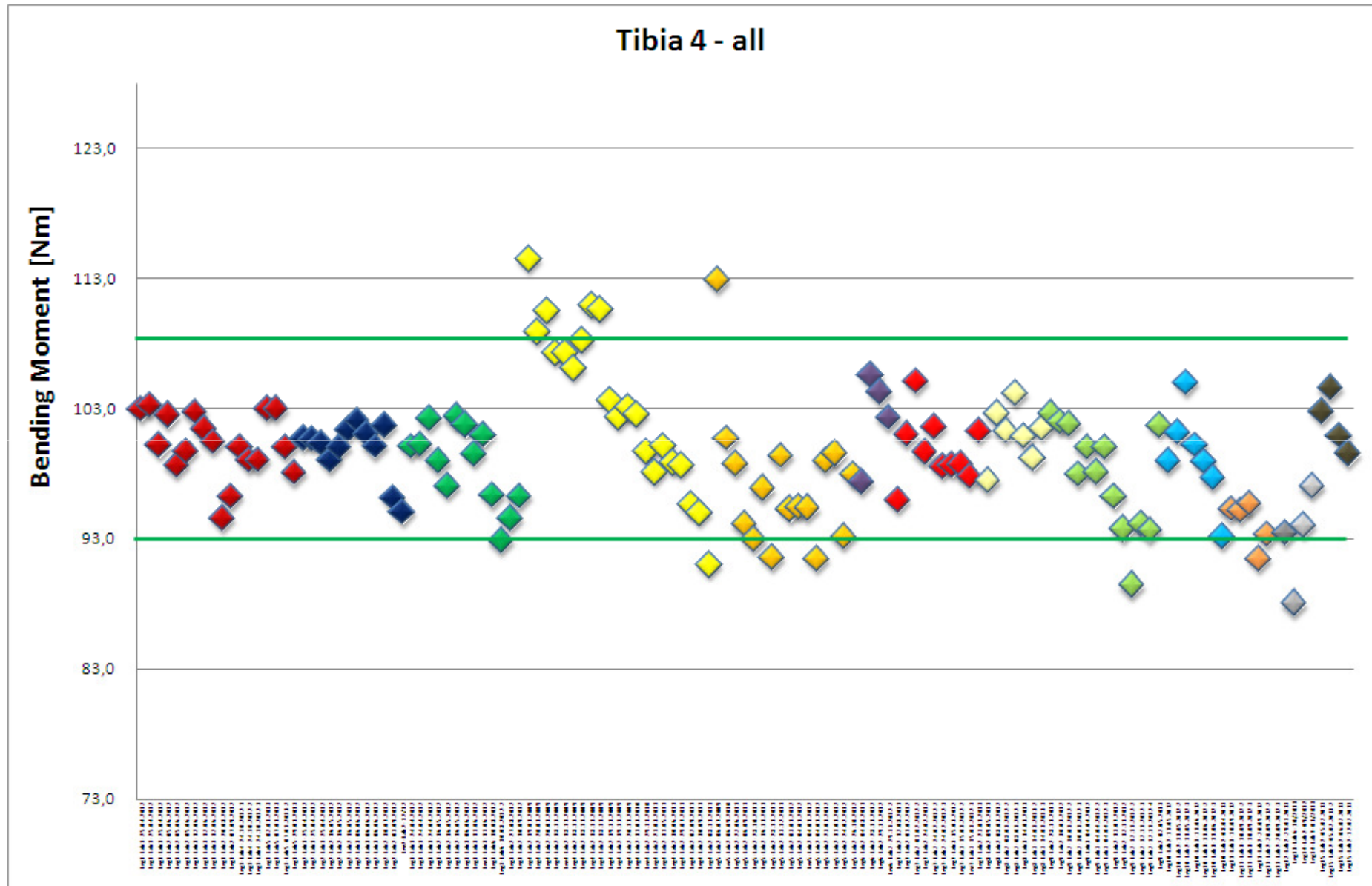
Results Tibia 3 - Inverse Tests



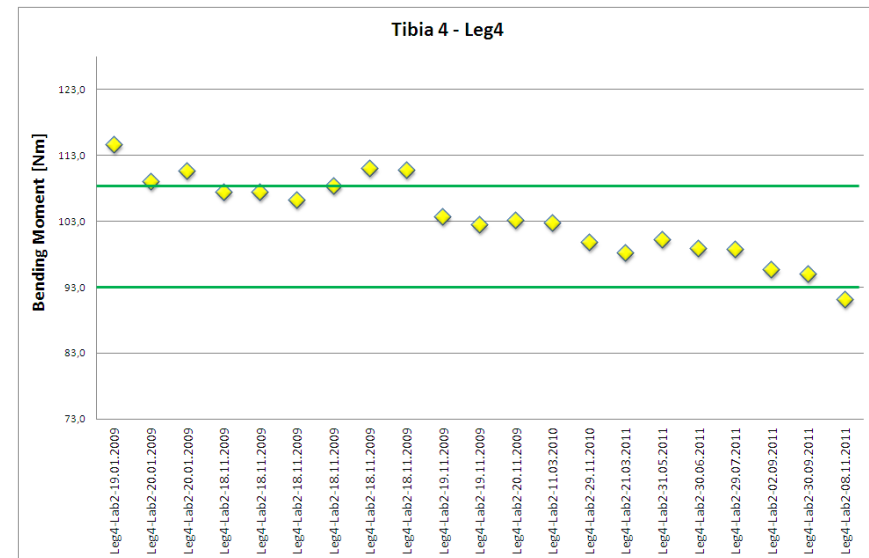
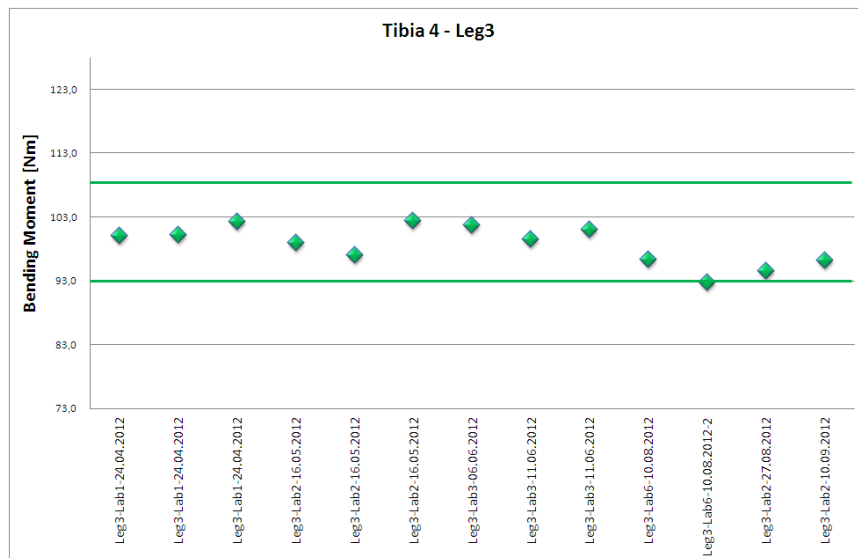
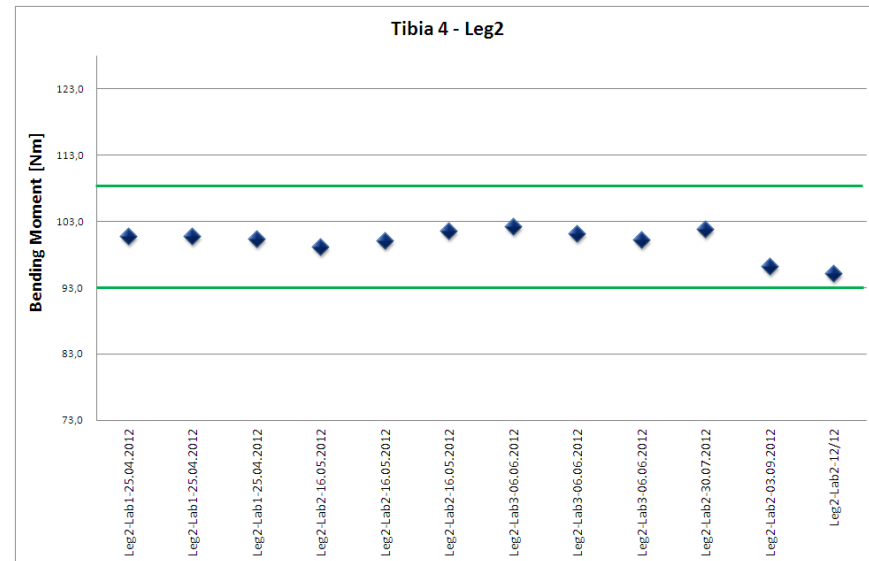
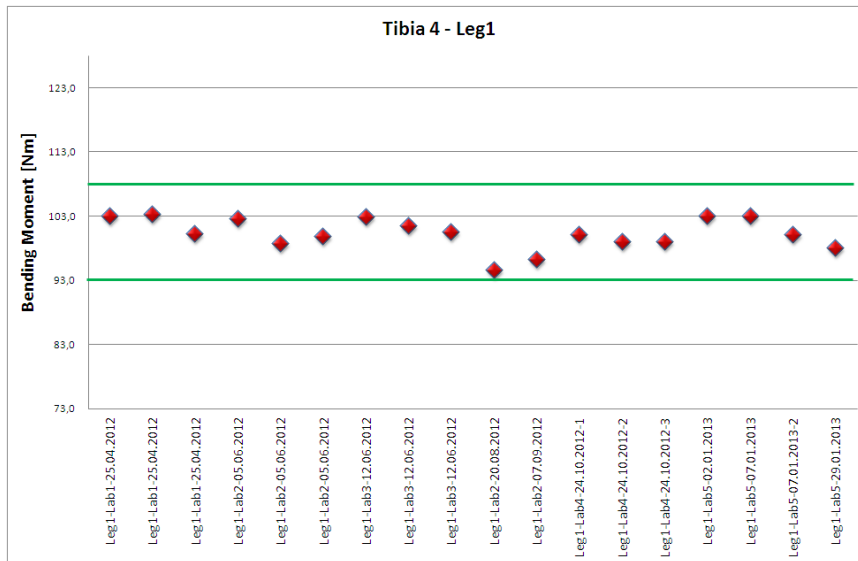
Results Tibia 3 - Inverse Tests



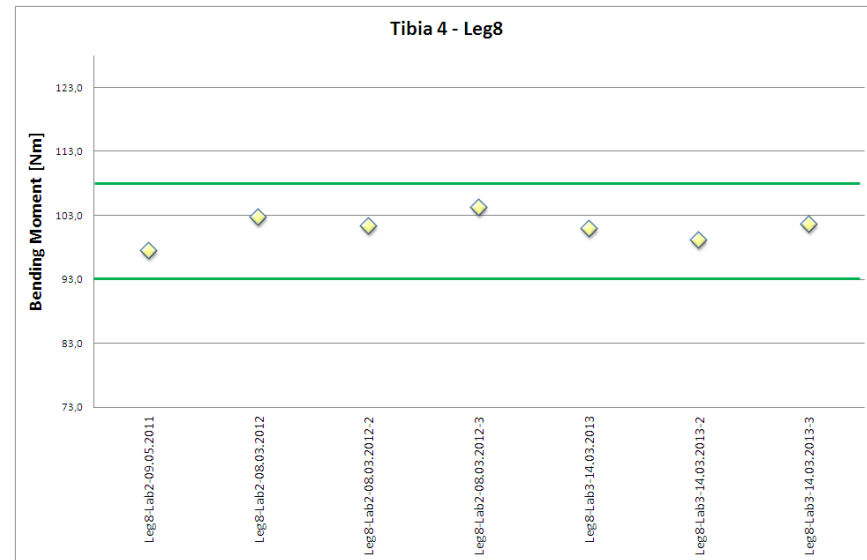
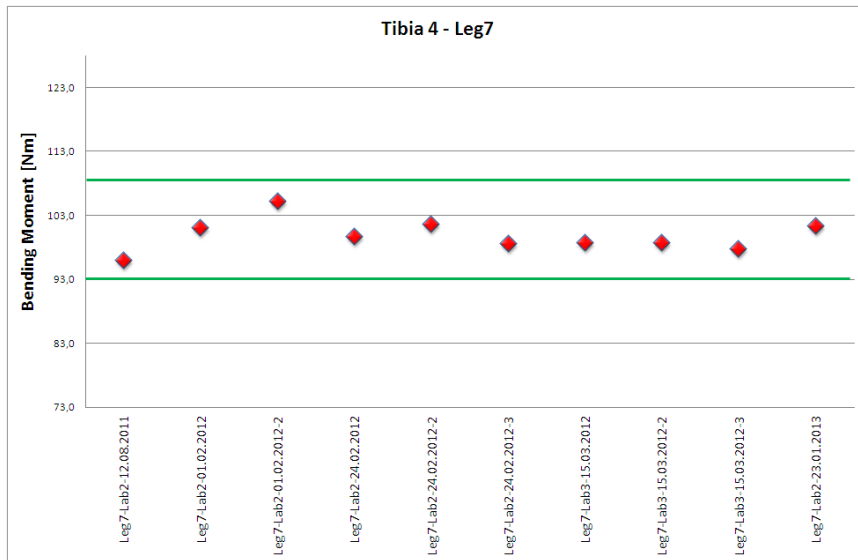
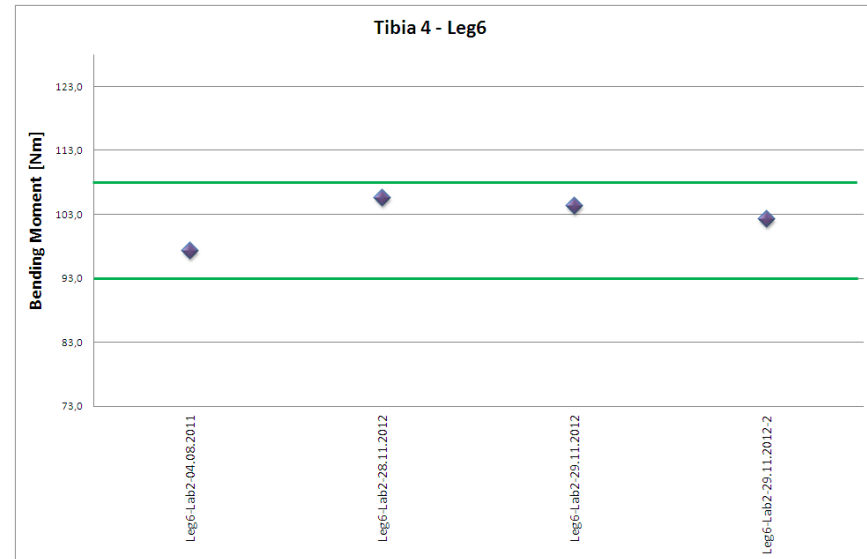
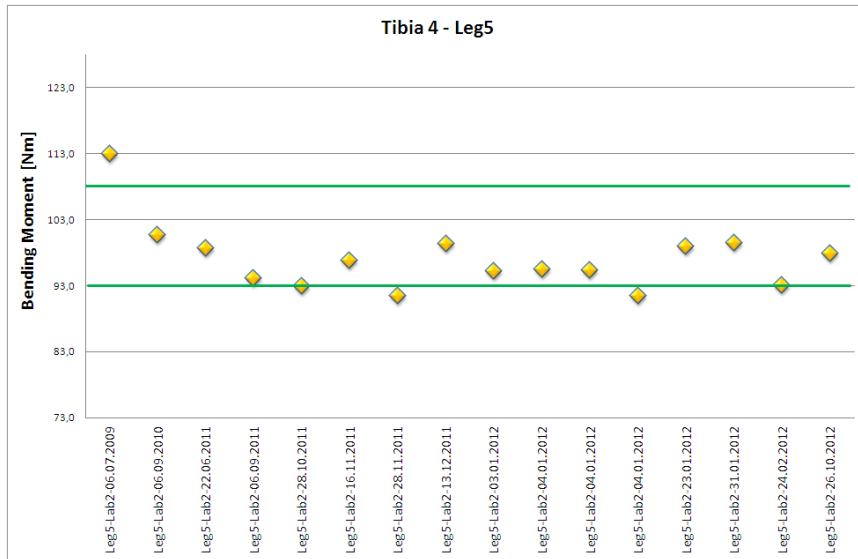
Results Overview - Inverse Tests T4



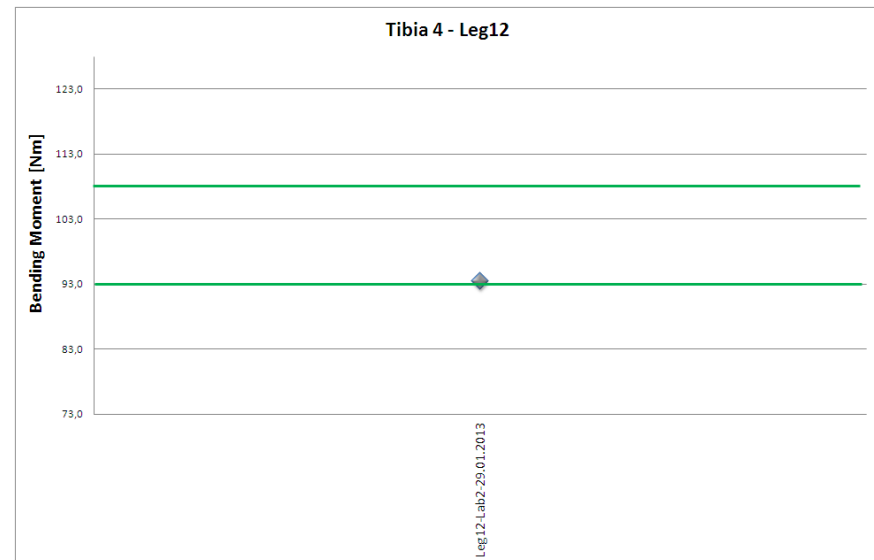
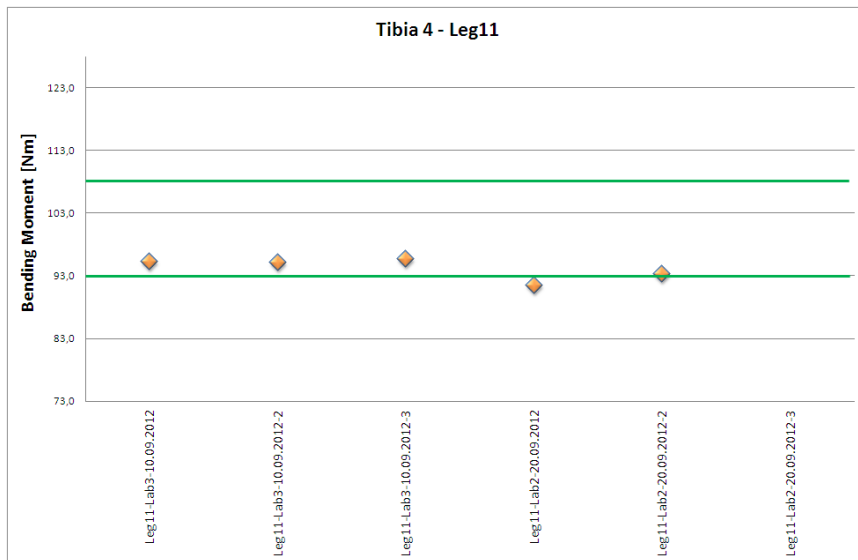
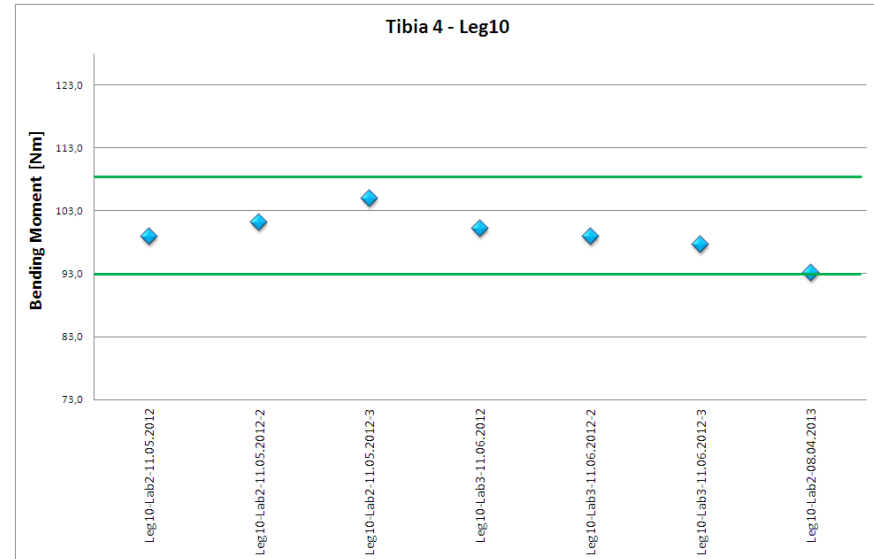
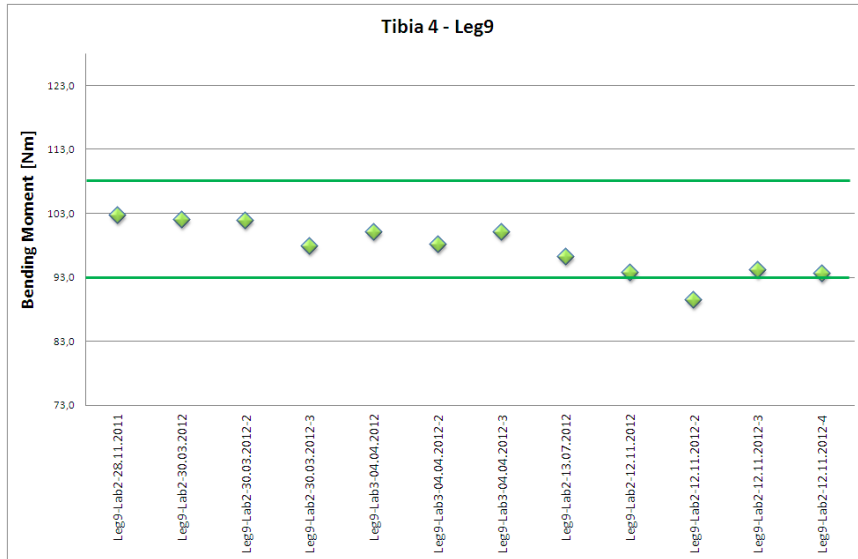
Results Tibia 4 - Inverse Tests



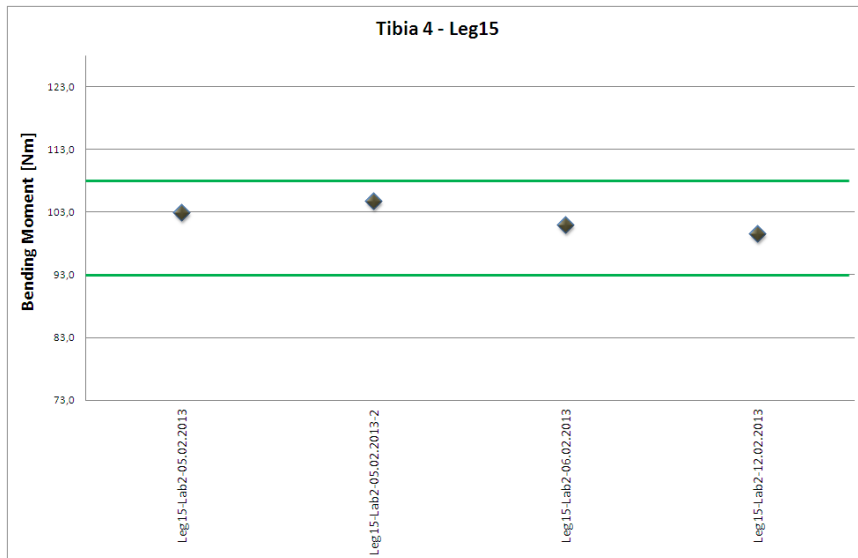
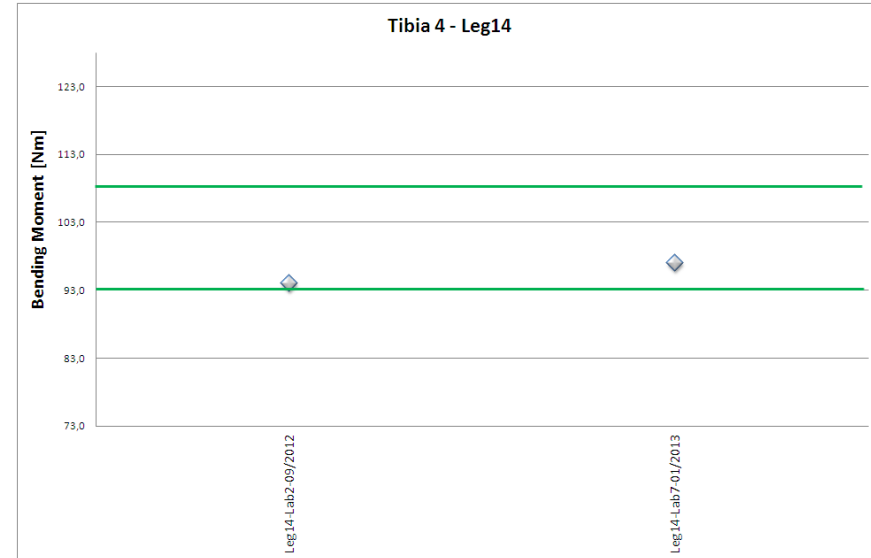
Results Tibia 4 - Inverse Tests



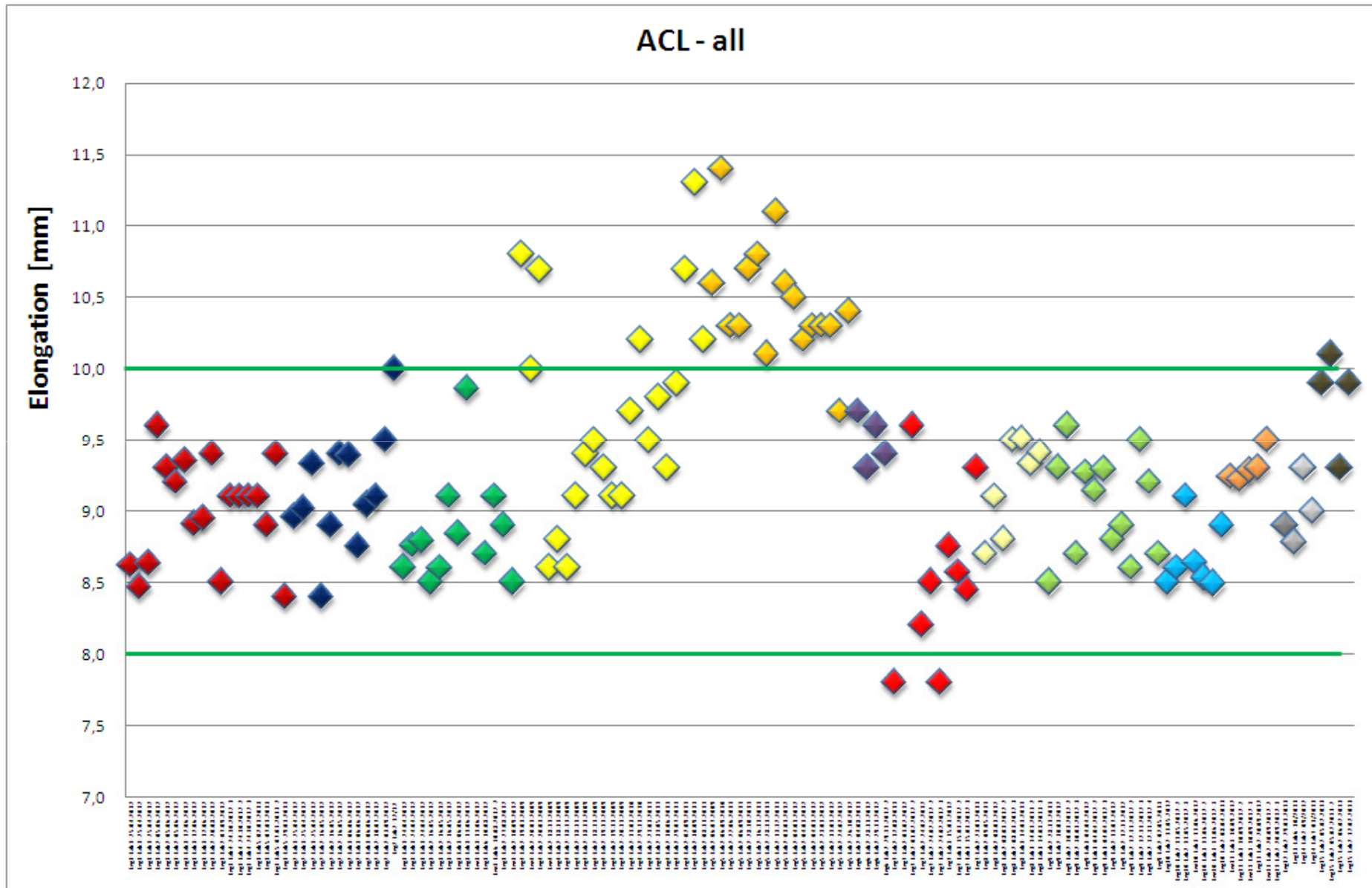
Results Tibia 4 - Inverse Tests



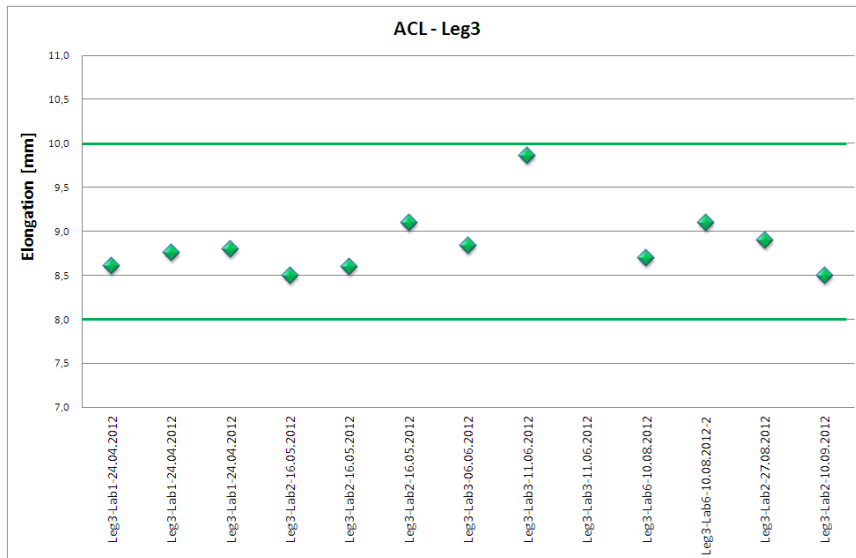
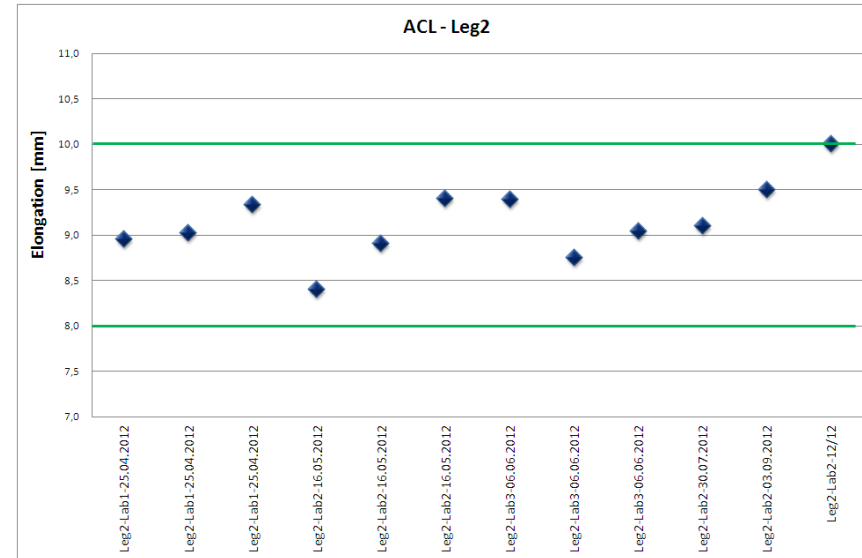
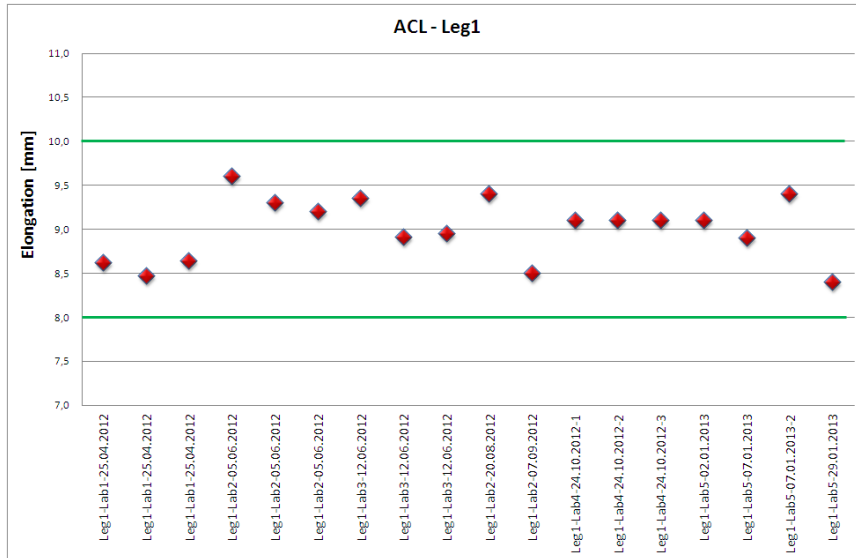
Results Tibia 4 - Inverse Tests



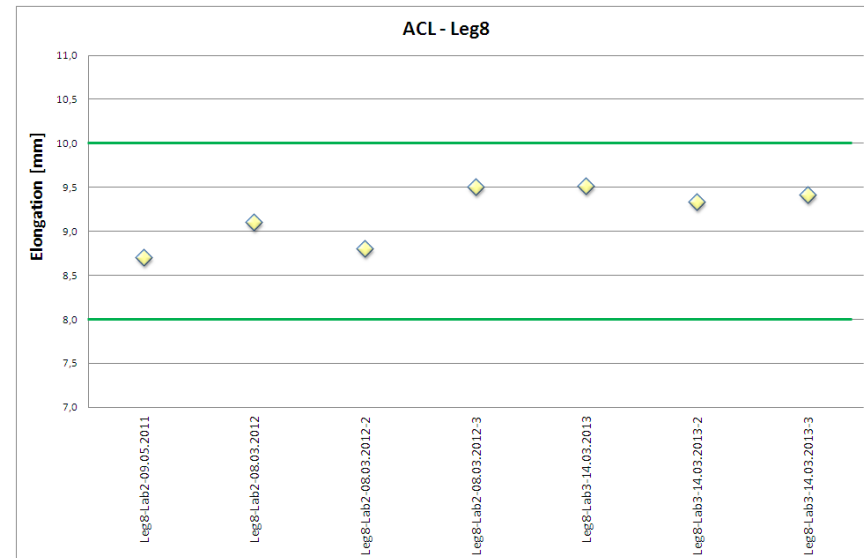
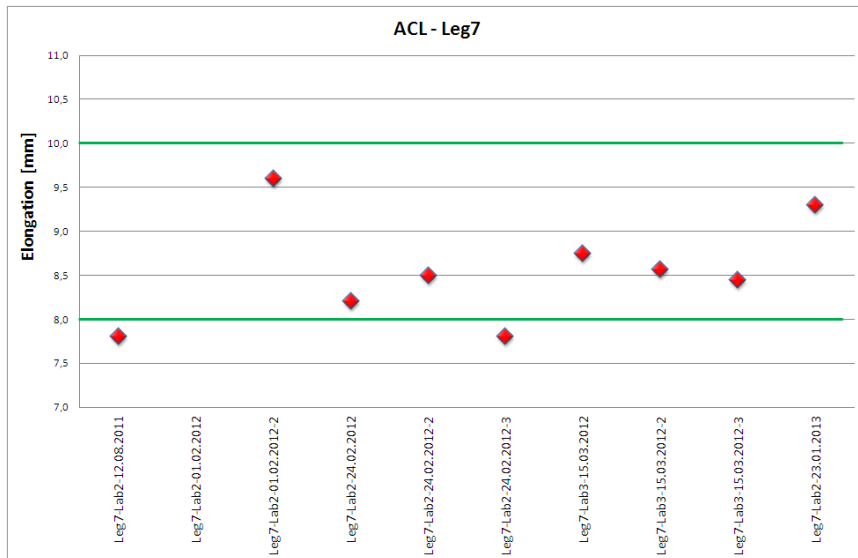
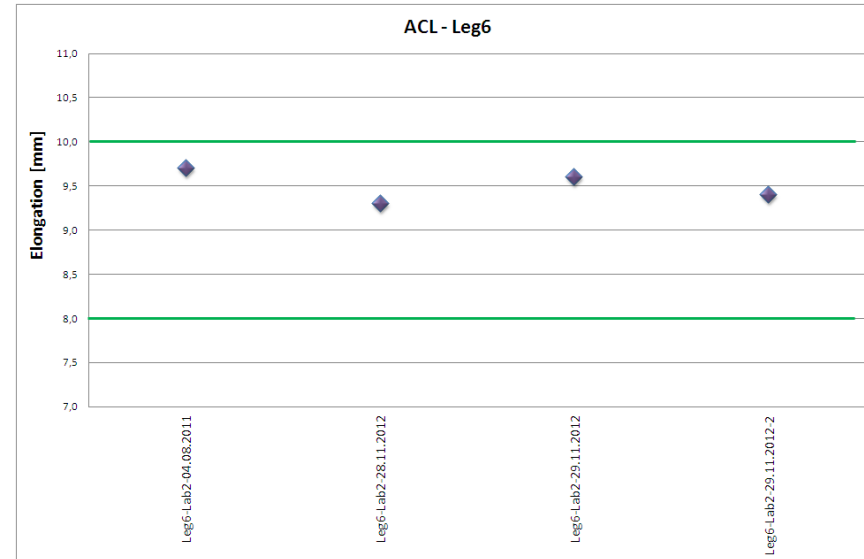
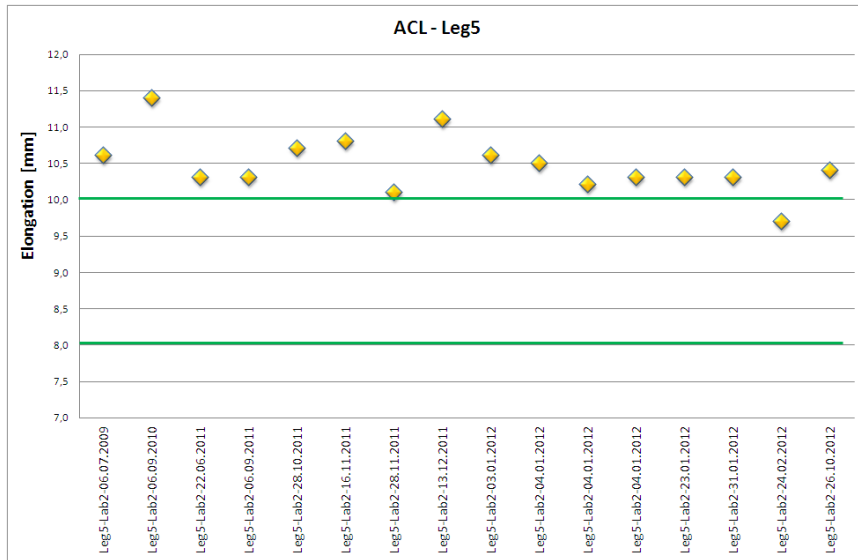
Results Overview - Inverse Tests ACL



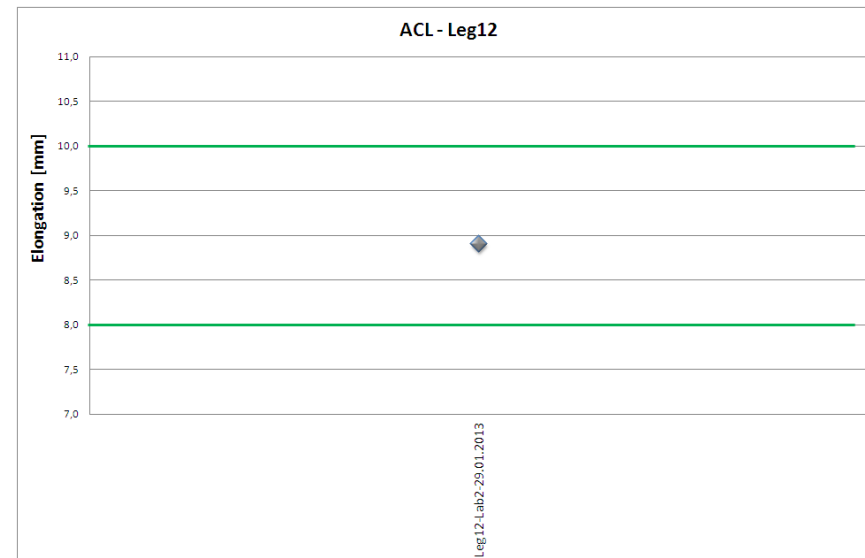
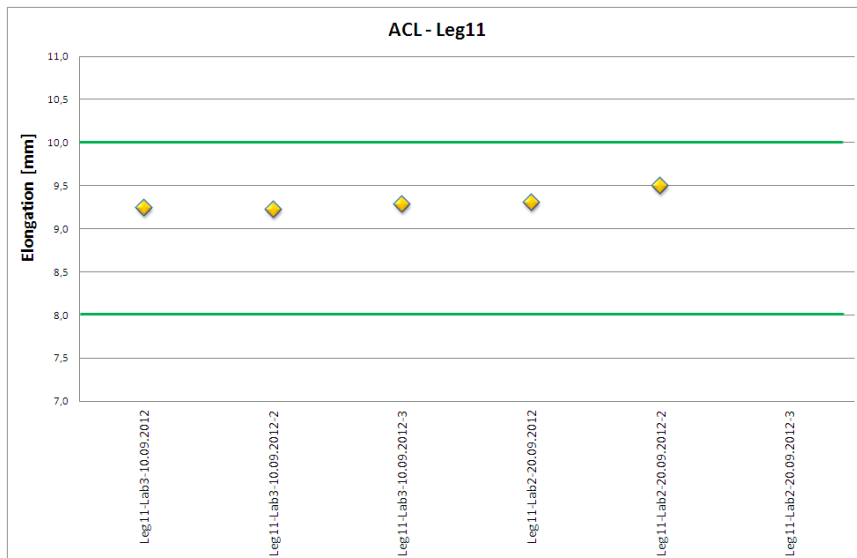
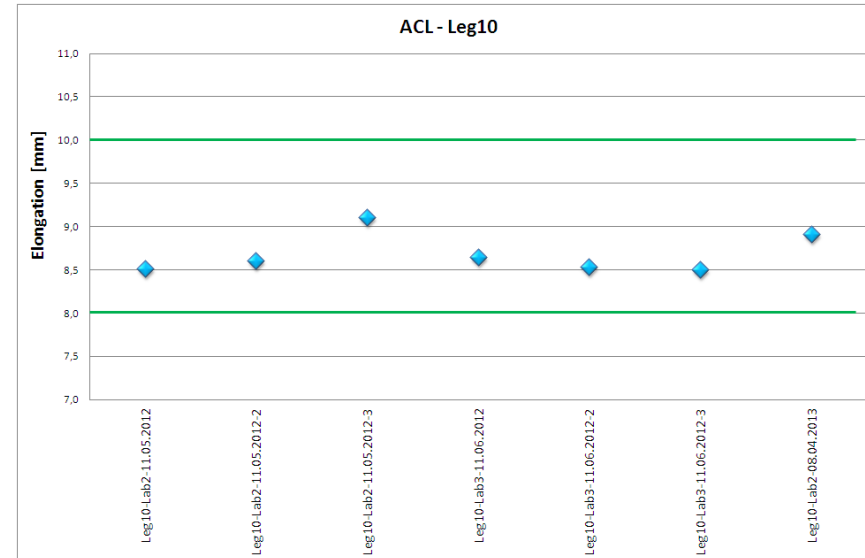
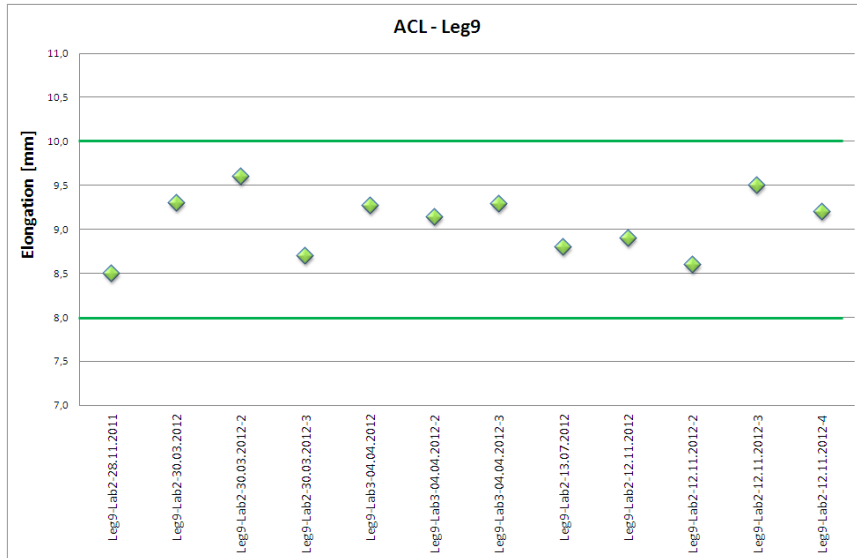
Results ACL - Inverse Tests



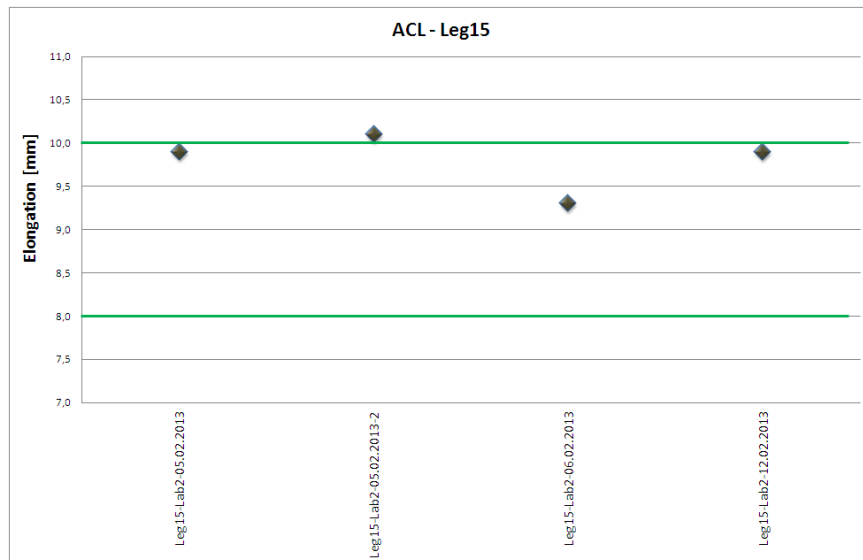
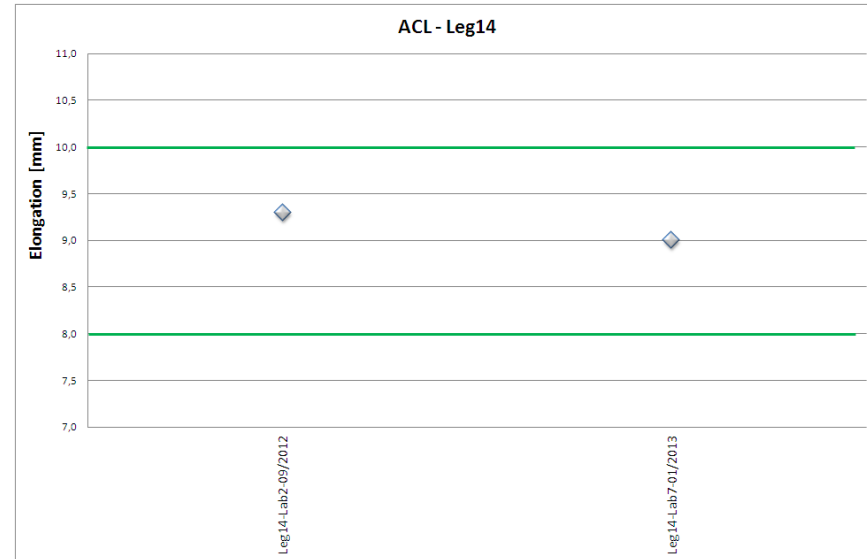
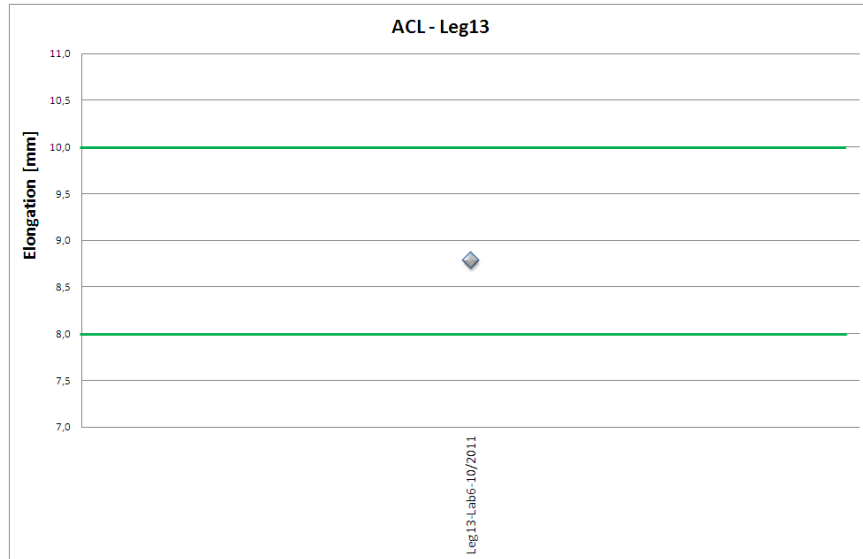
Results ACL - Inverse Tests



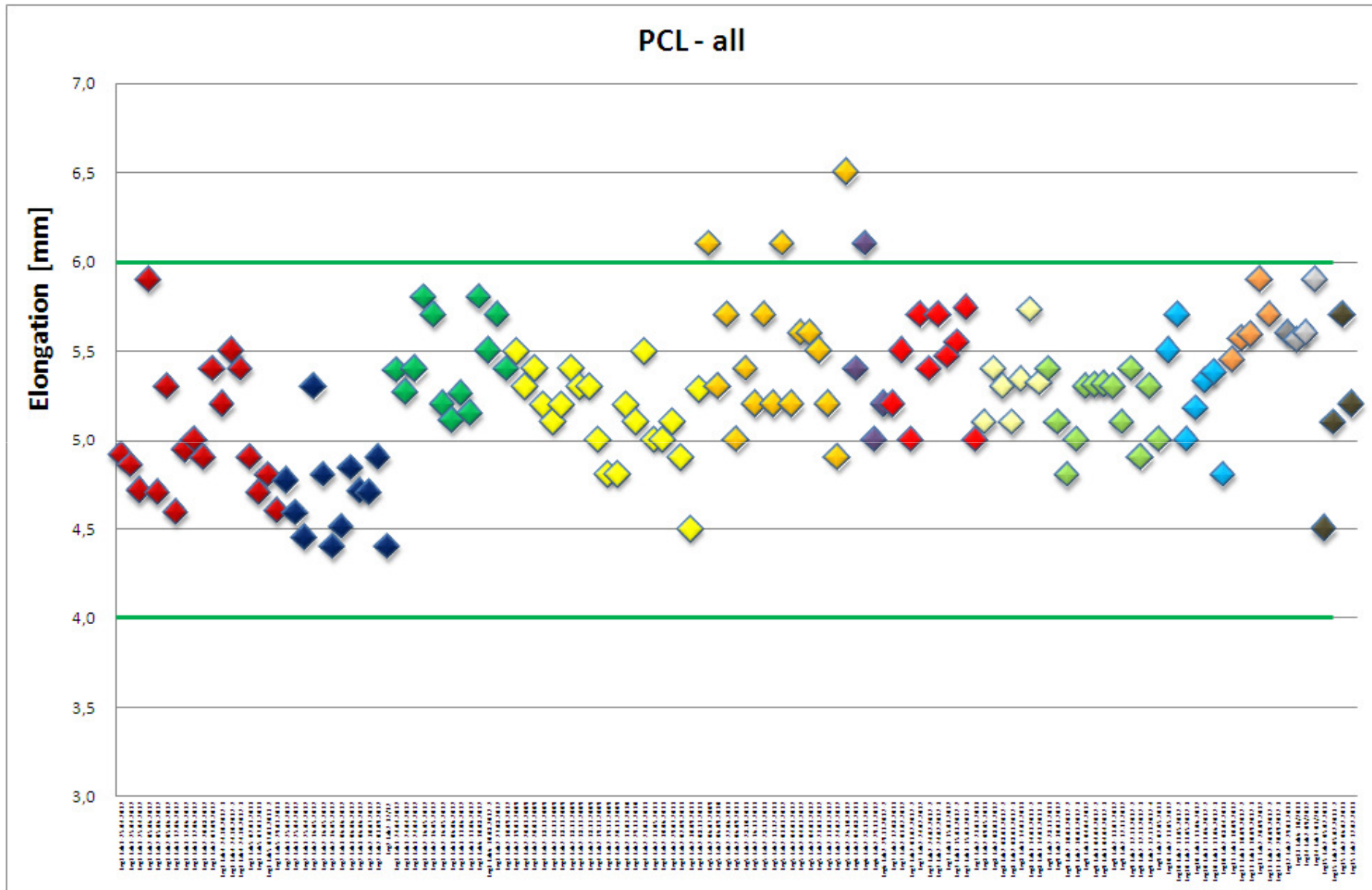
Results ACL - Inverse Tests



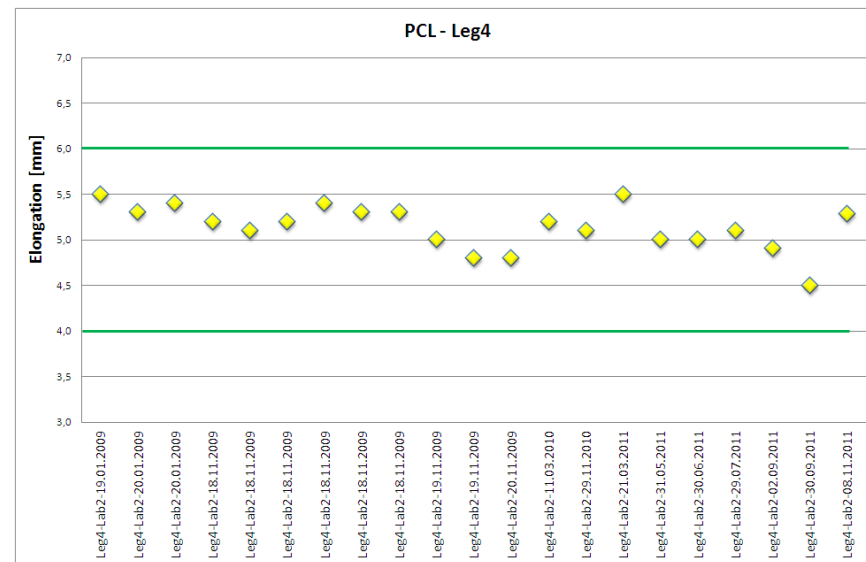
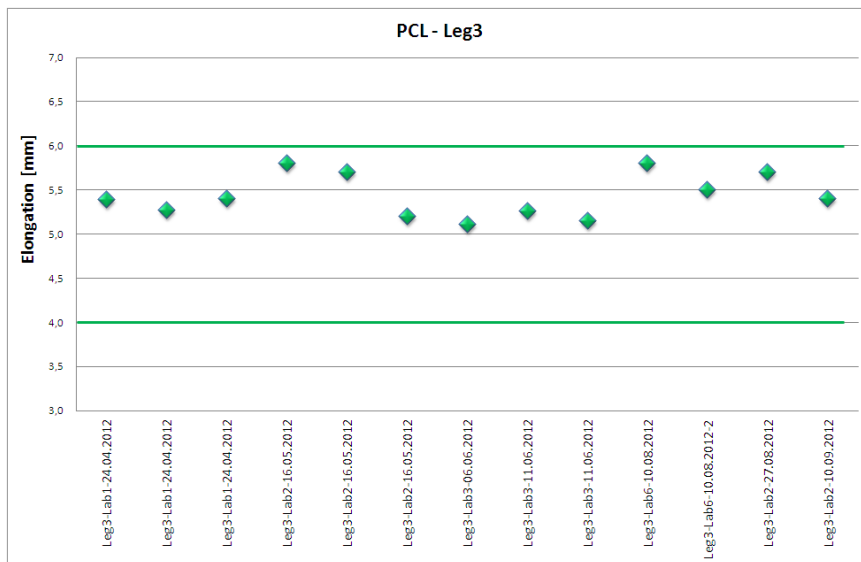
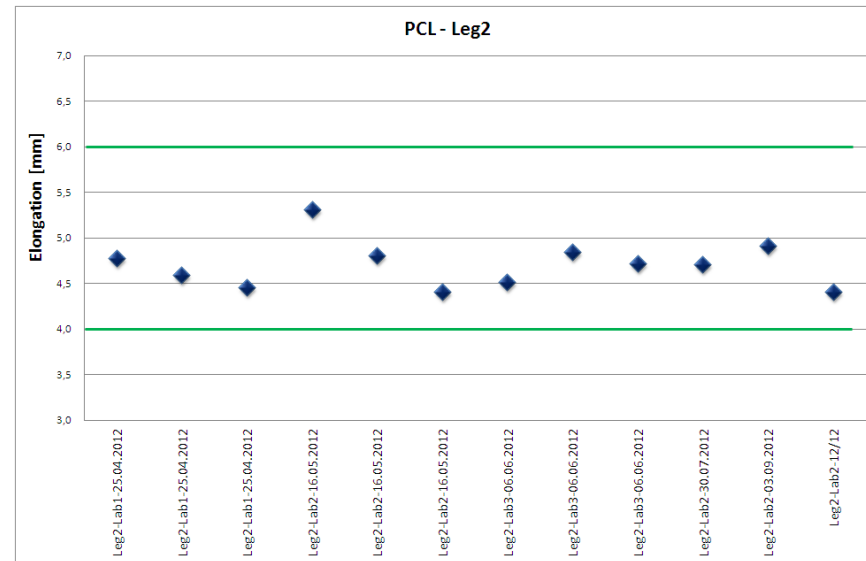
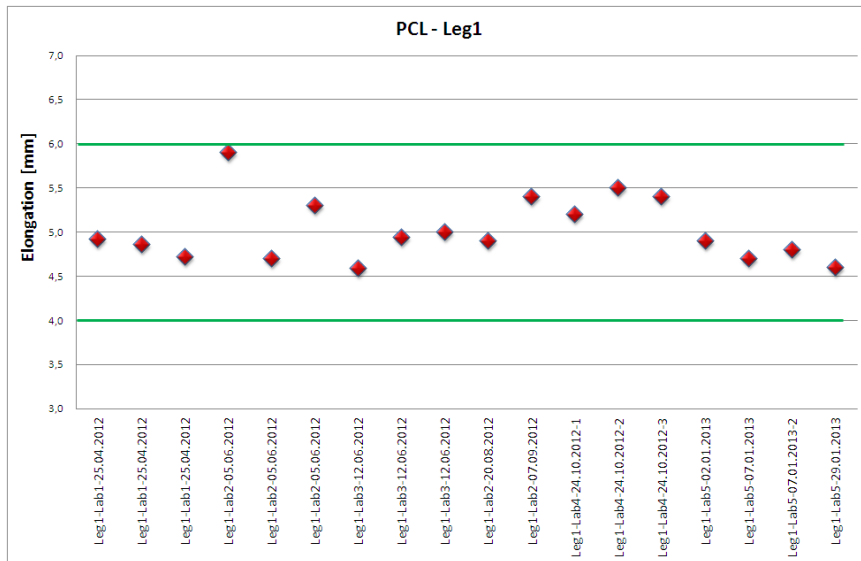
Results ACL - Inverse Tests



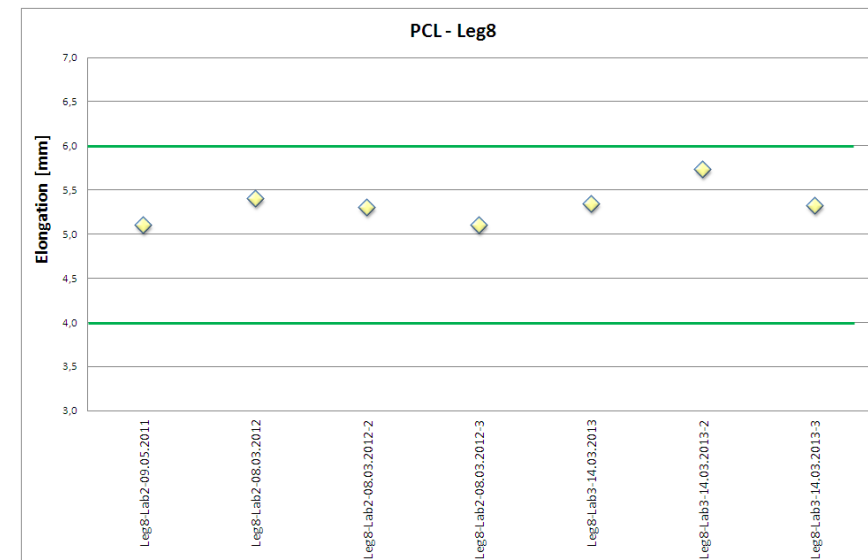
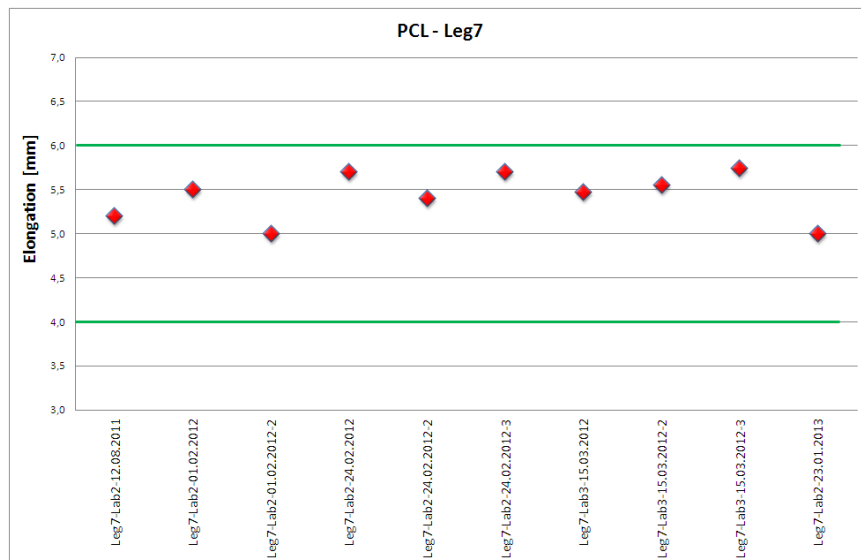
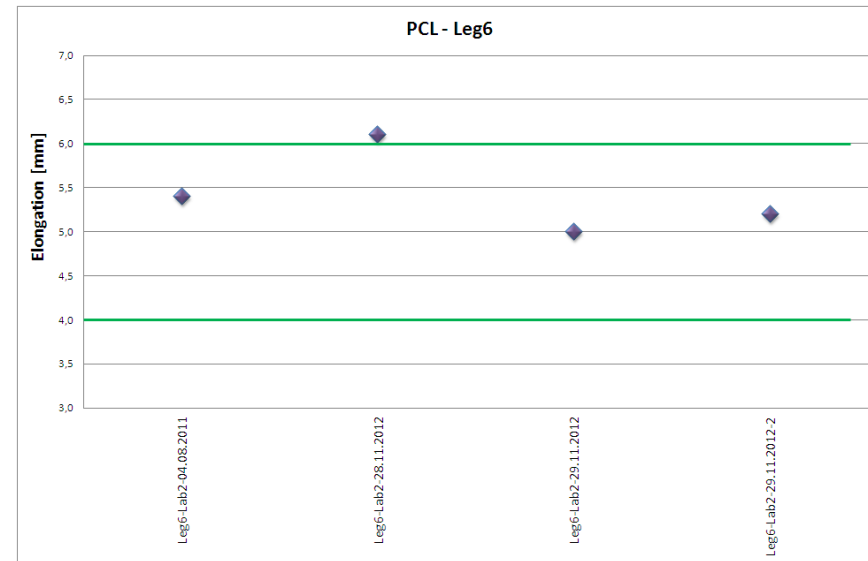
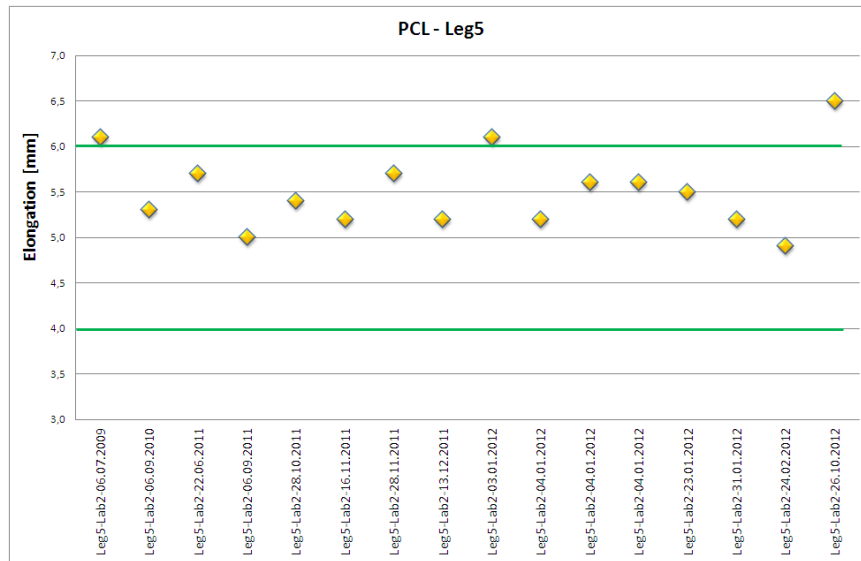
Results Overview - Inverse Tests PCL



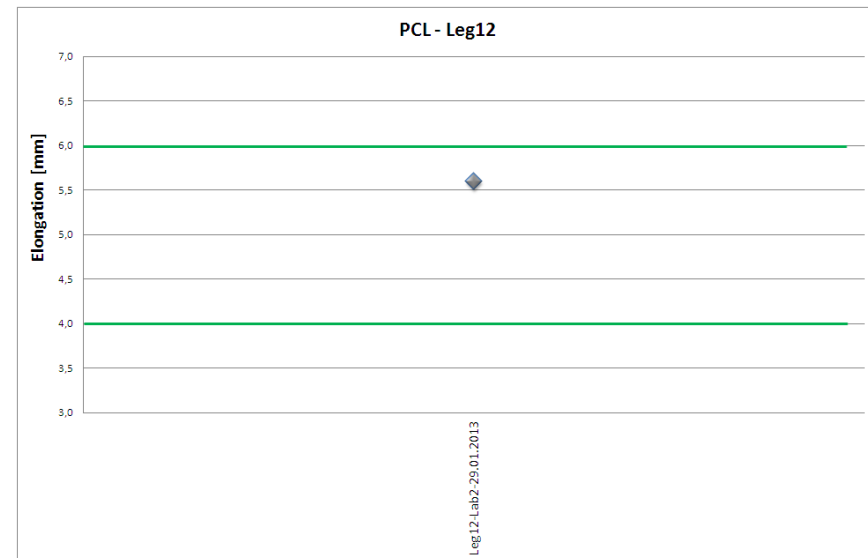
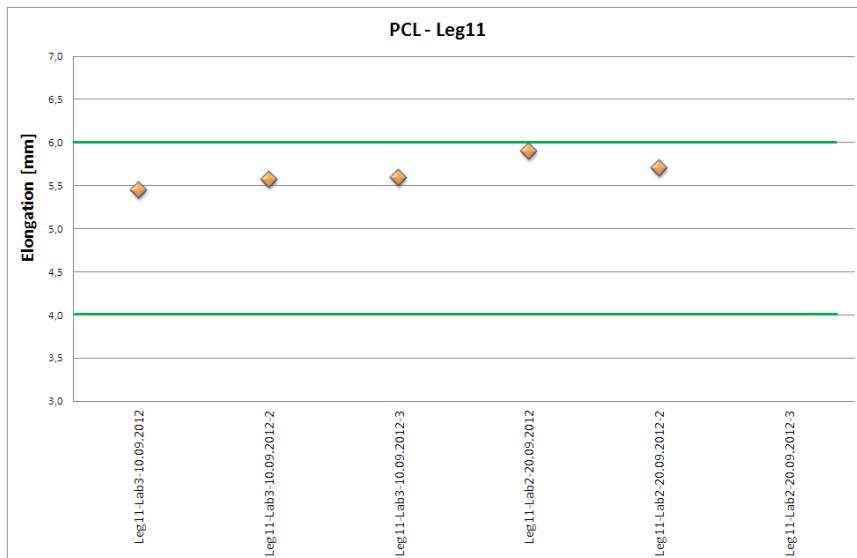
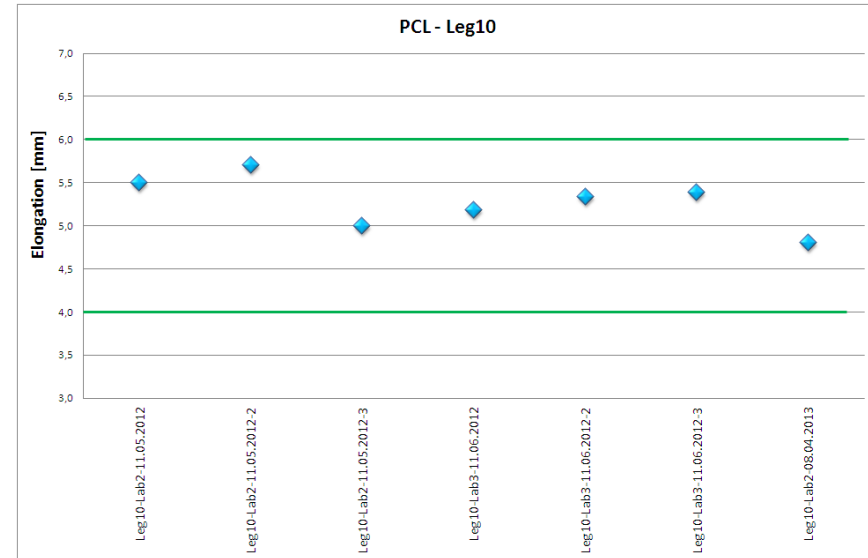
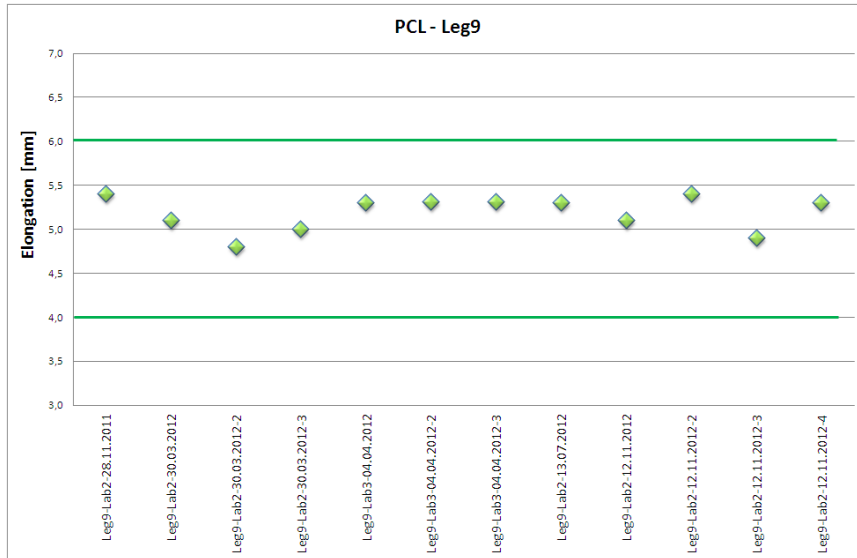
Results PCL - Inverse Tests



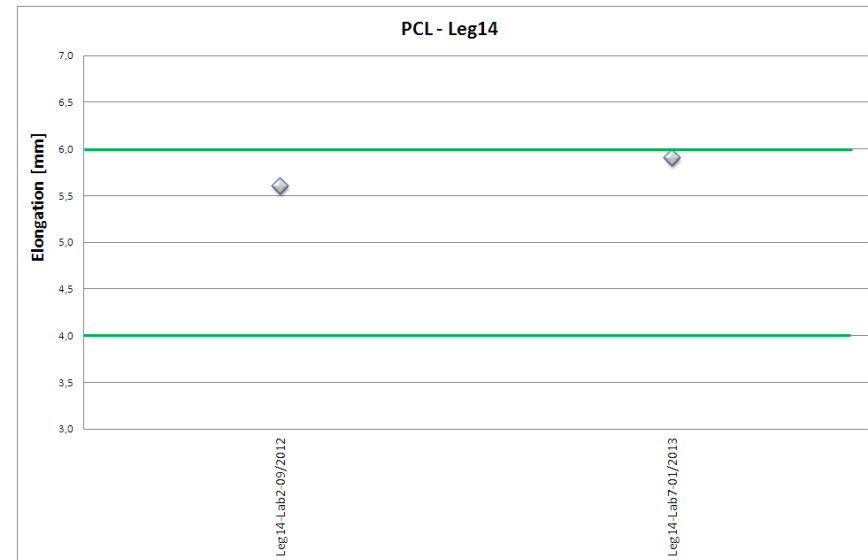
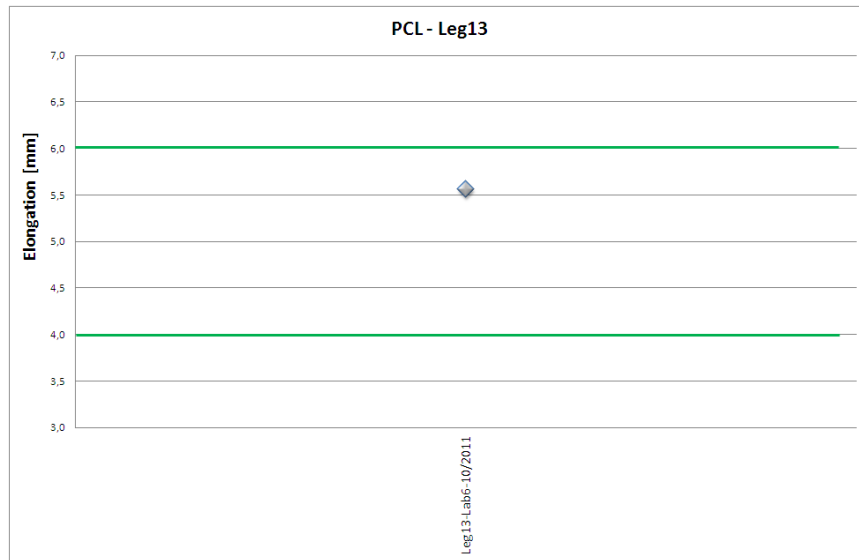
Results PCL - Inverse Tests



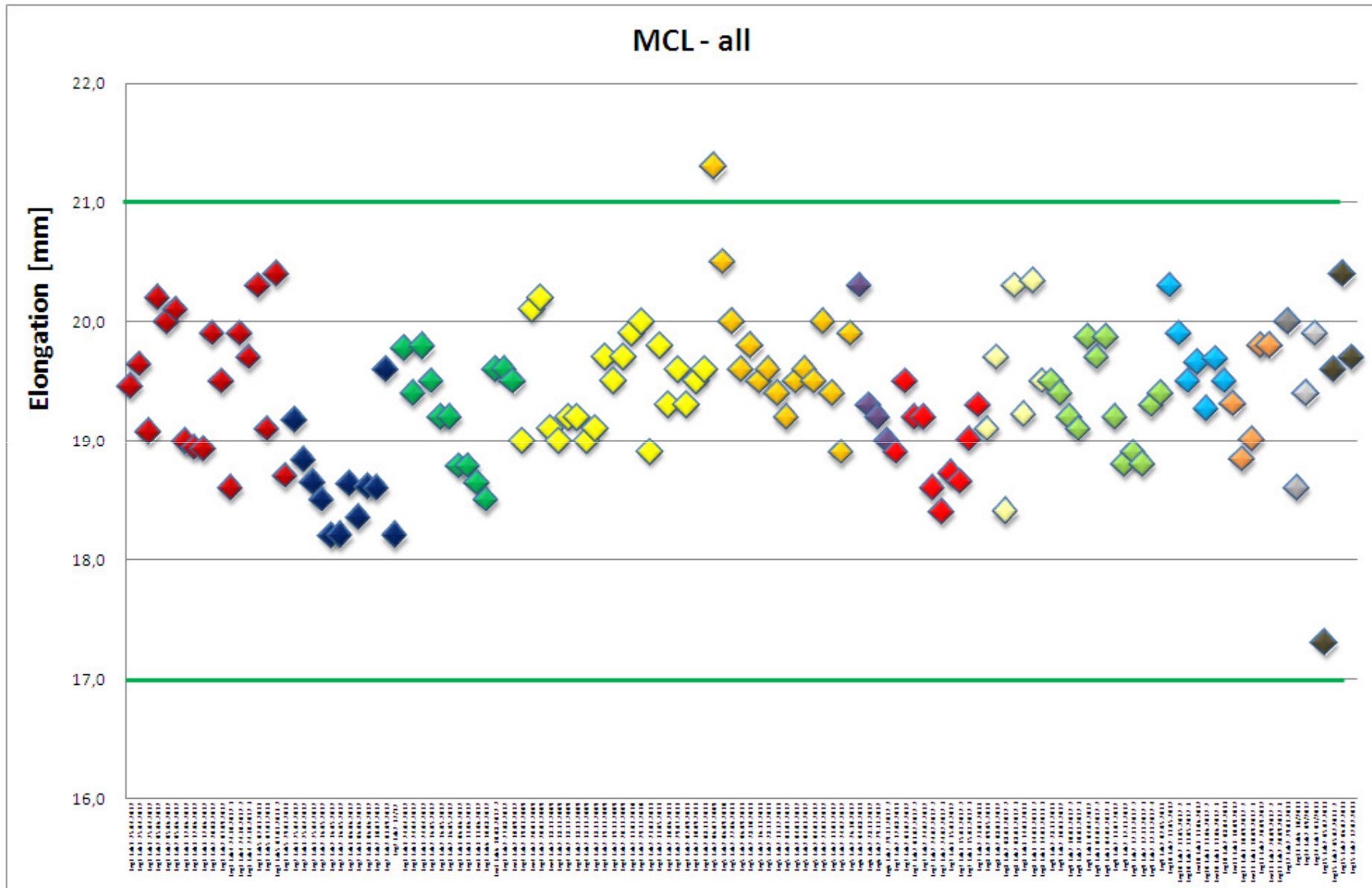
Results PCL - Inverse Tests



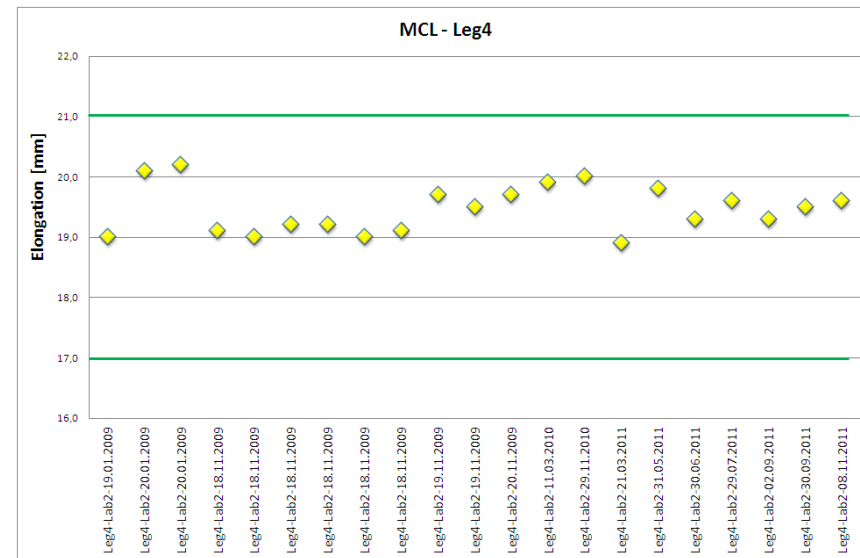
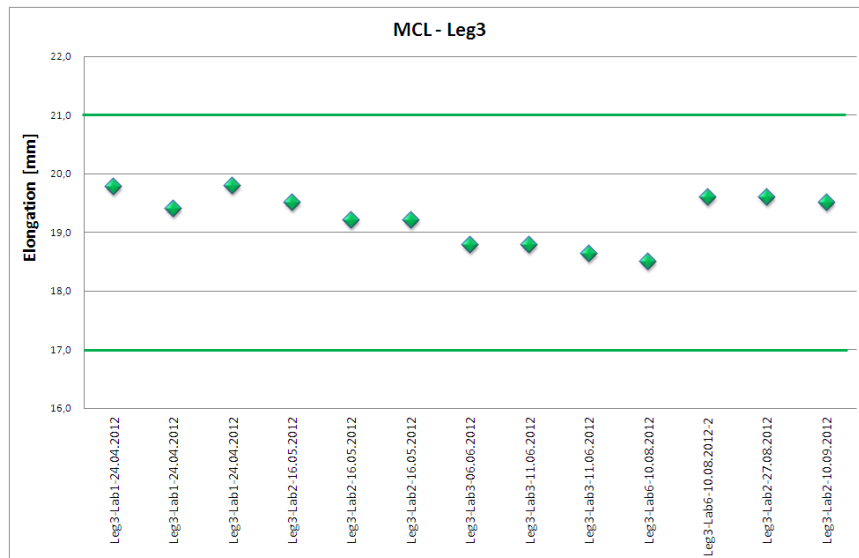
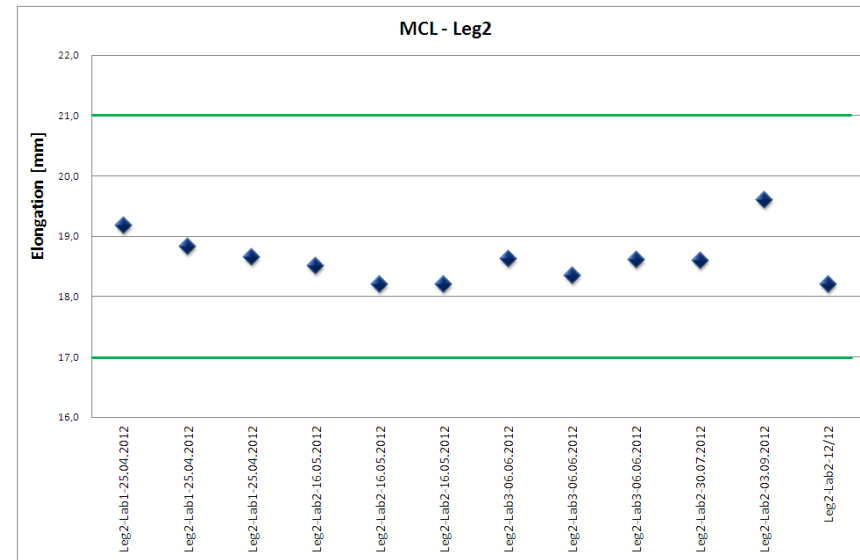
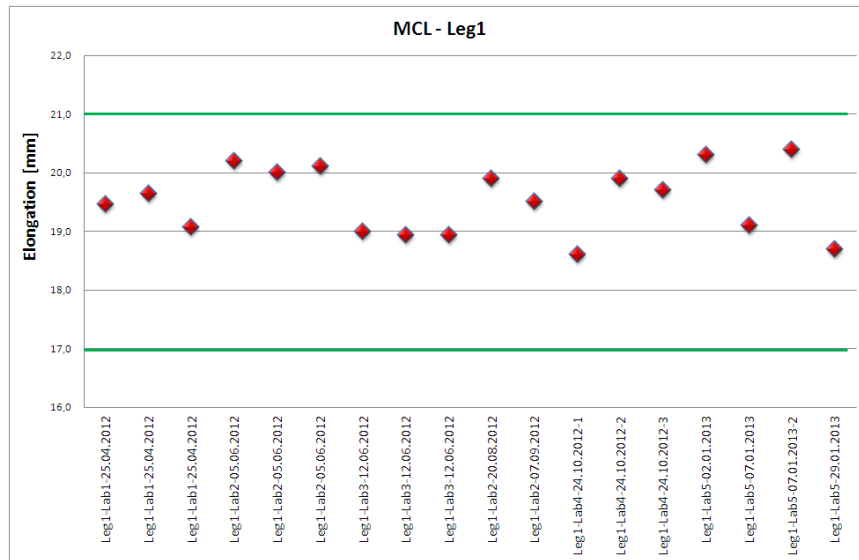
Results PCL - Inverse Tests



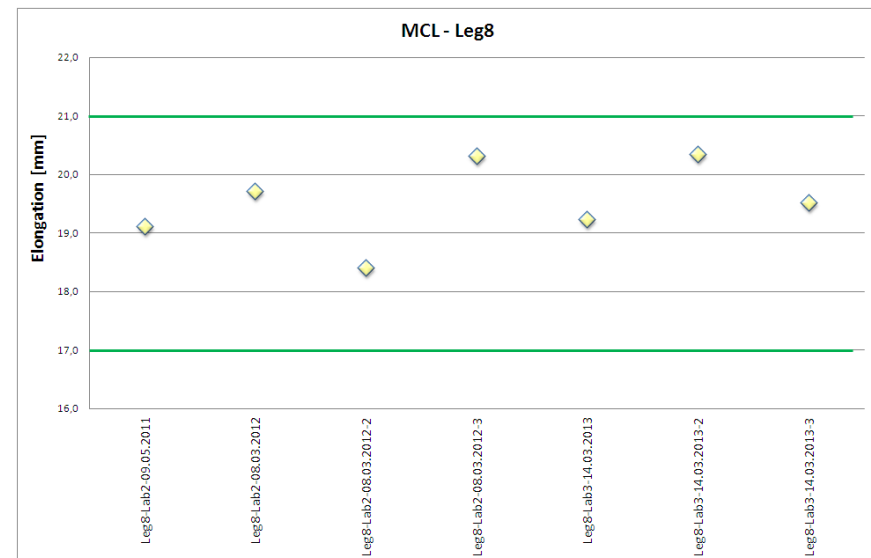
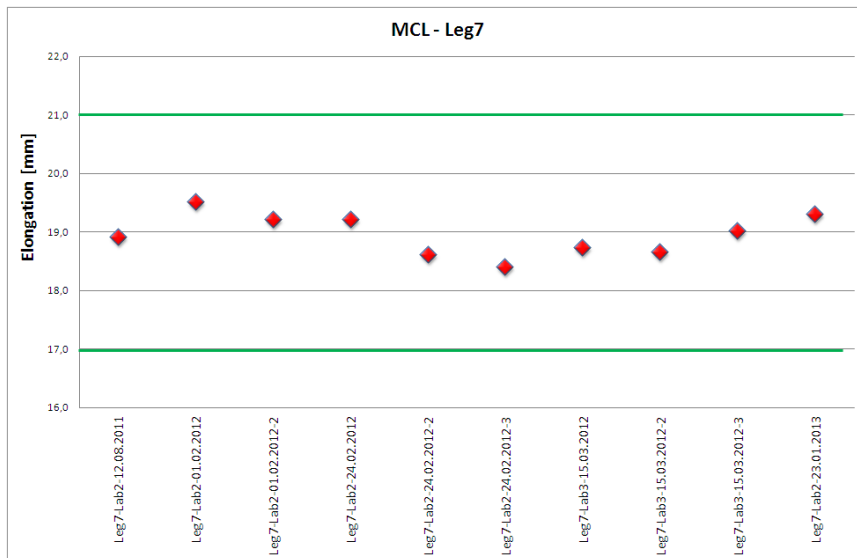
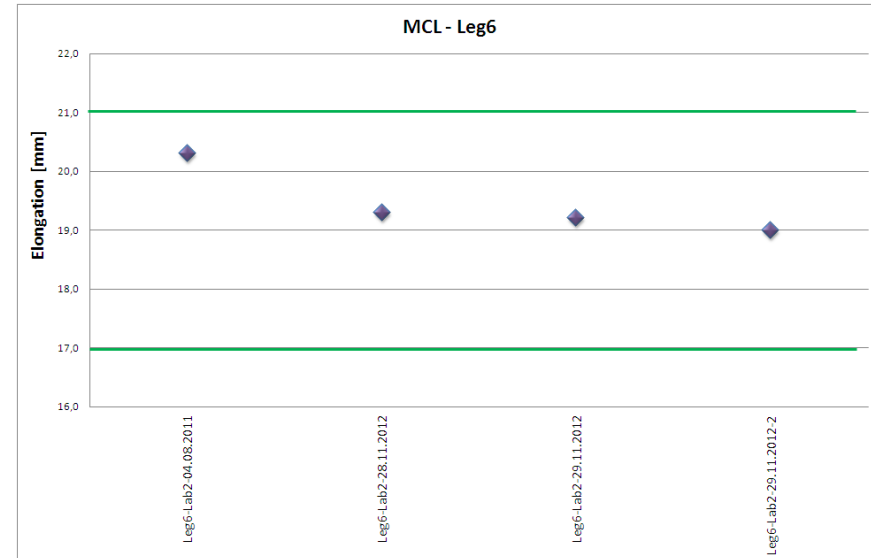
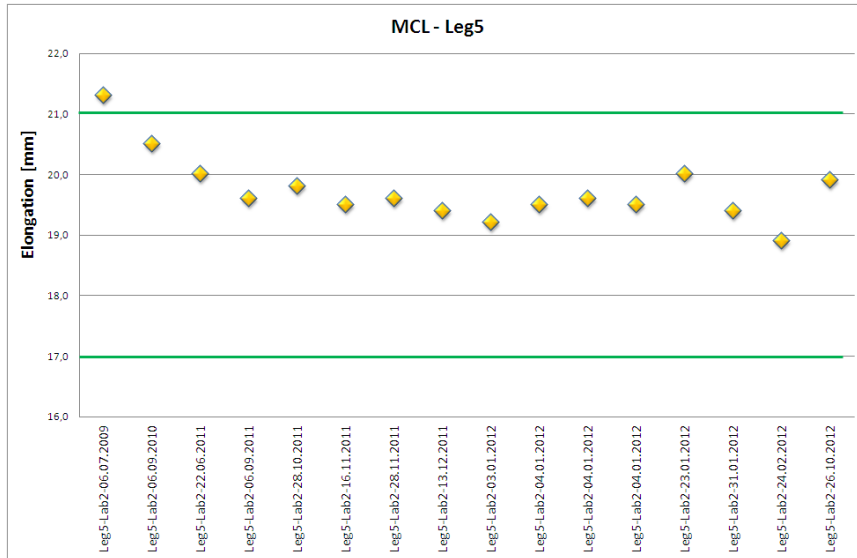
Results Overview - Inverse Tests MCL



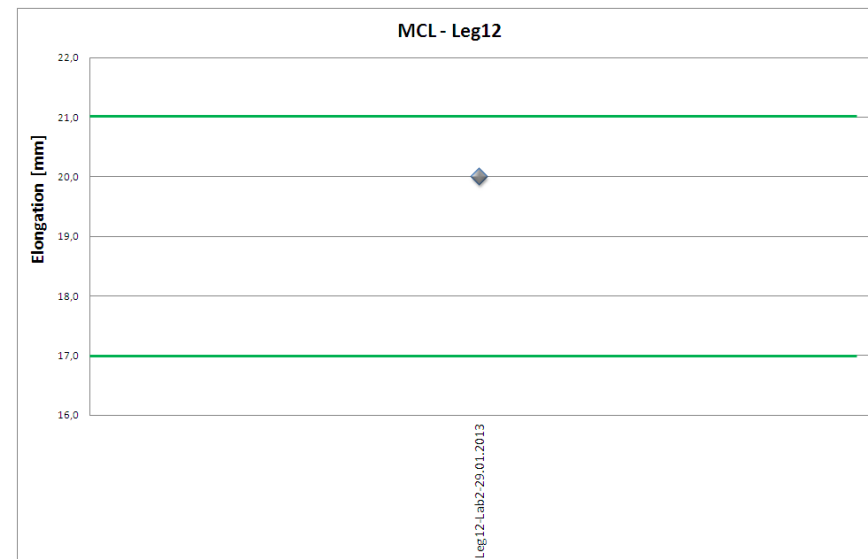
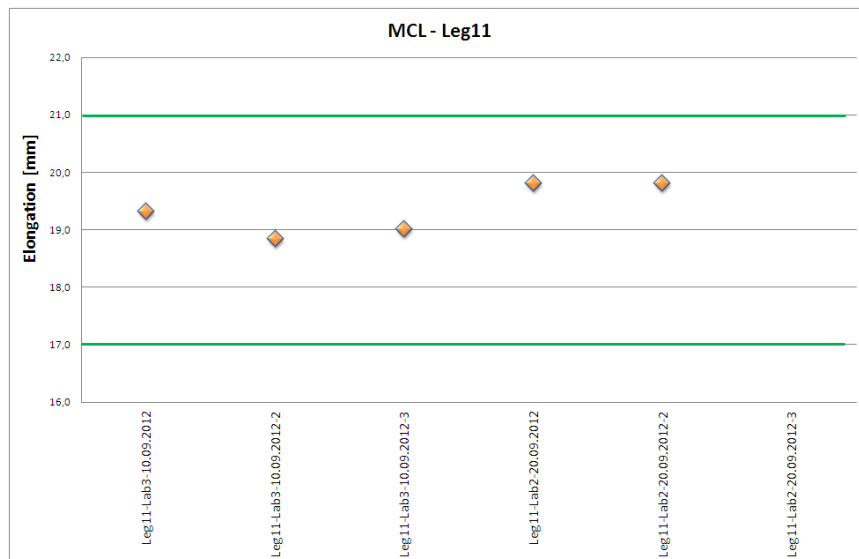
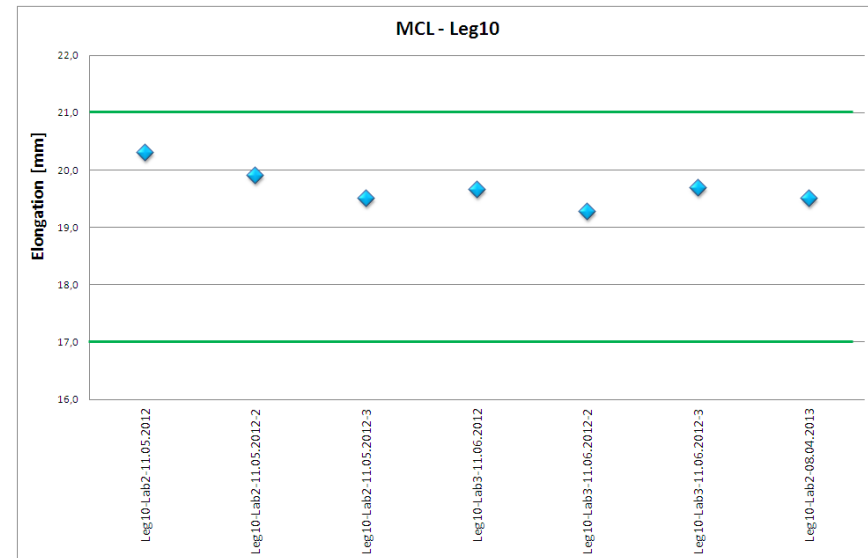
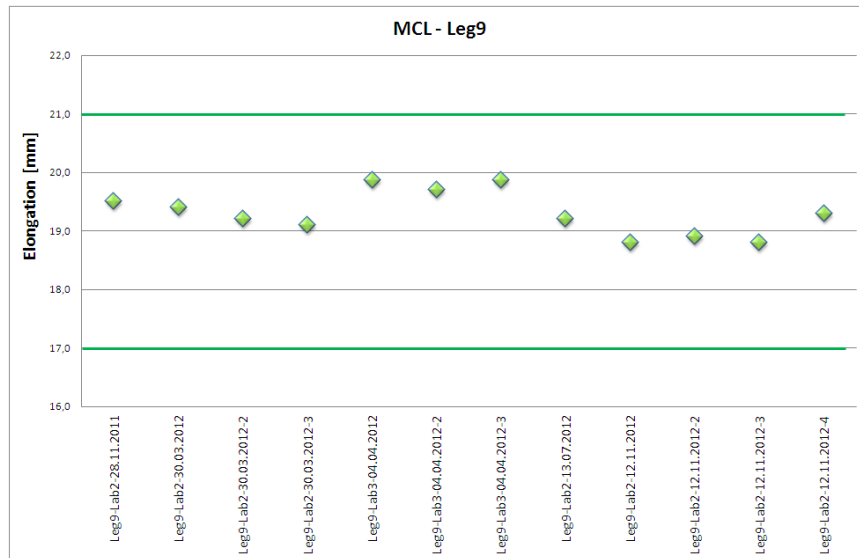
Results MCL - Inverse Tests



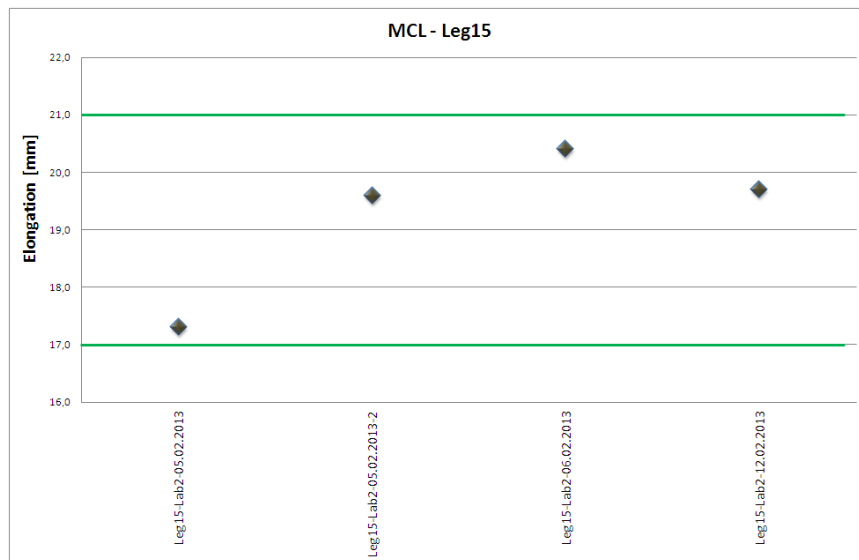
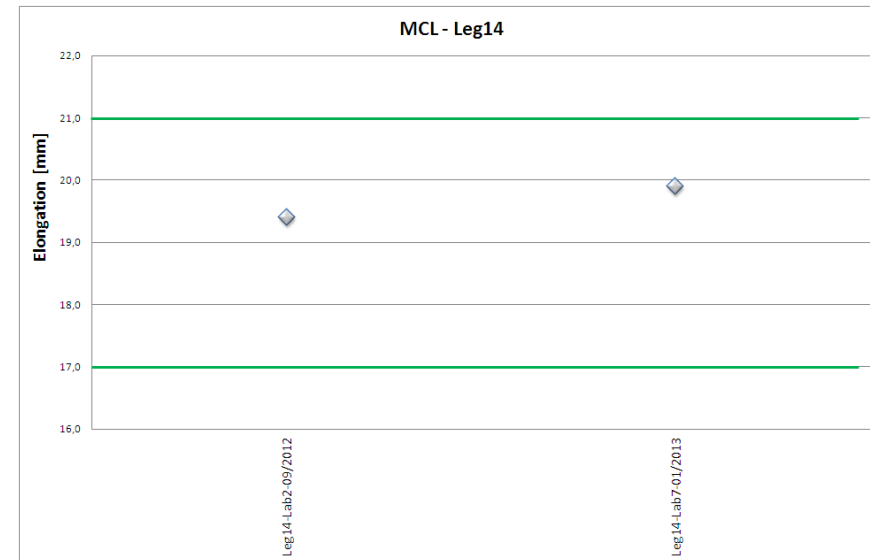
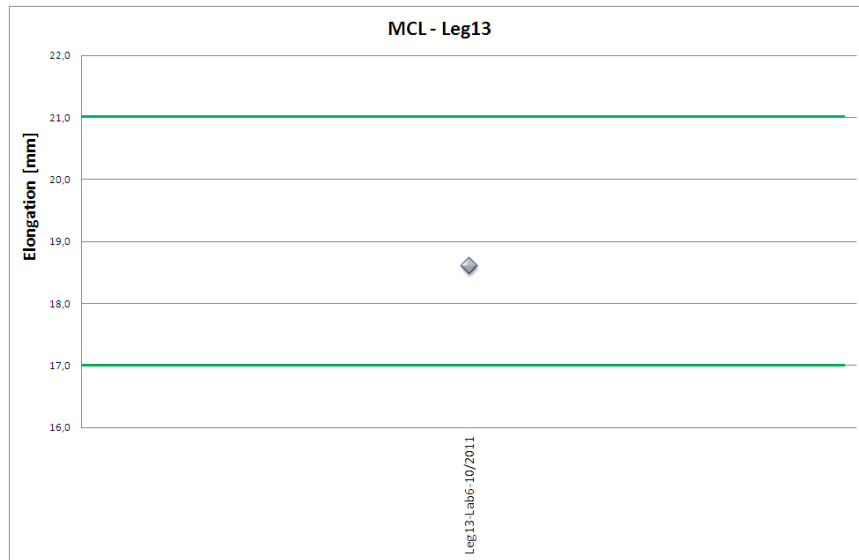
Results MCL - Inverse Tests



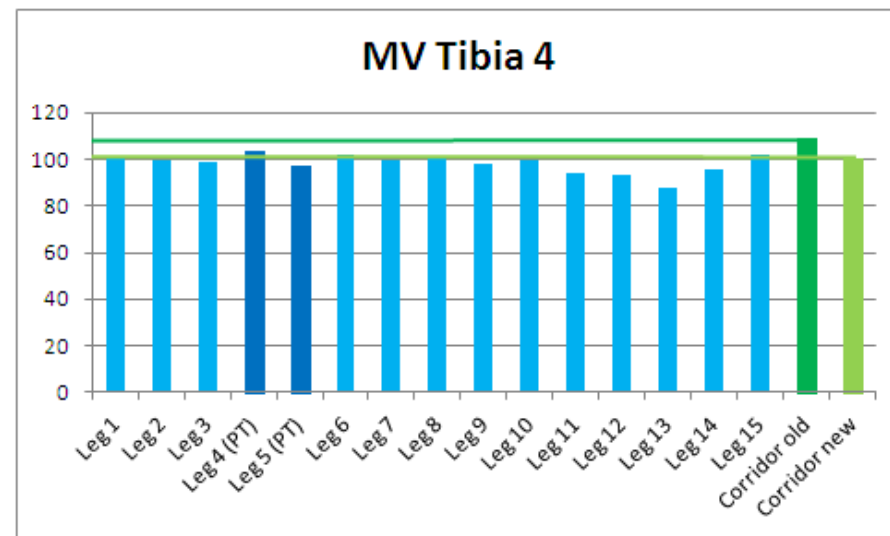
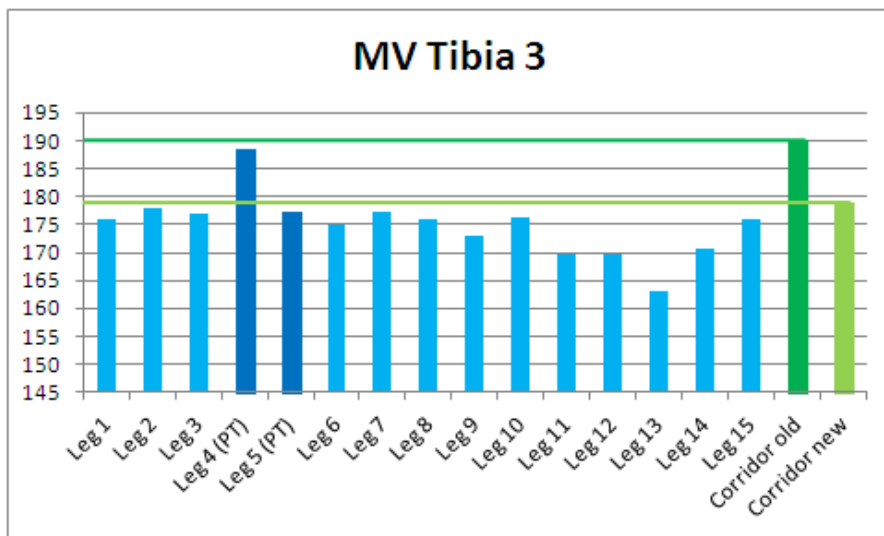
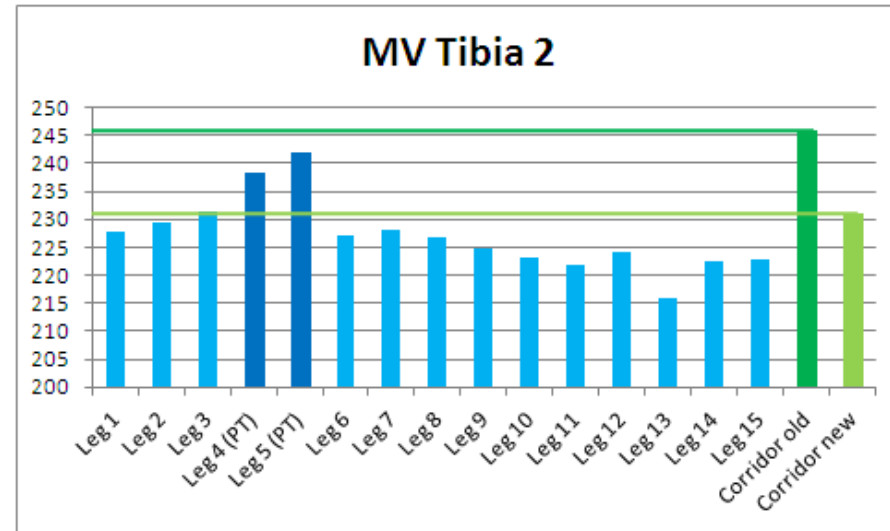
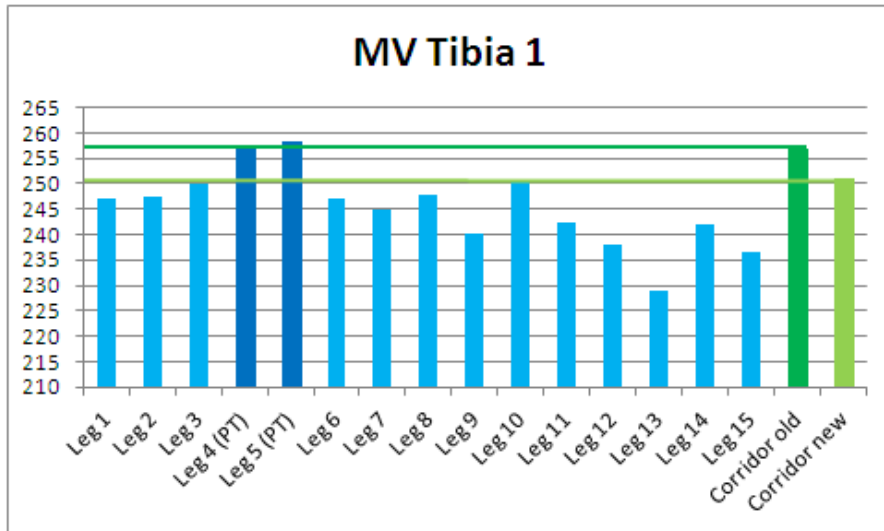
Results MCL - Inverse Tests



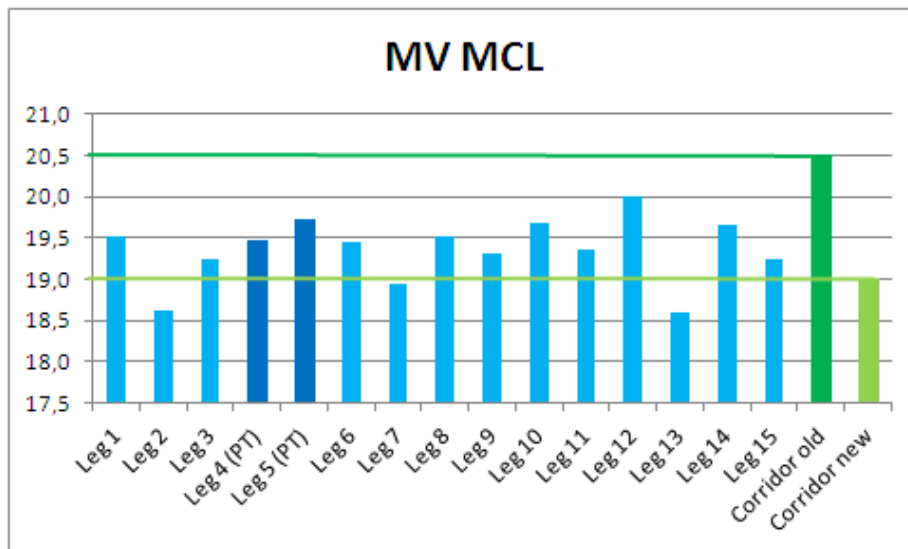
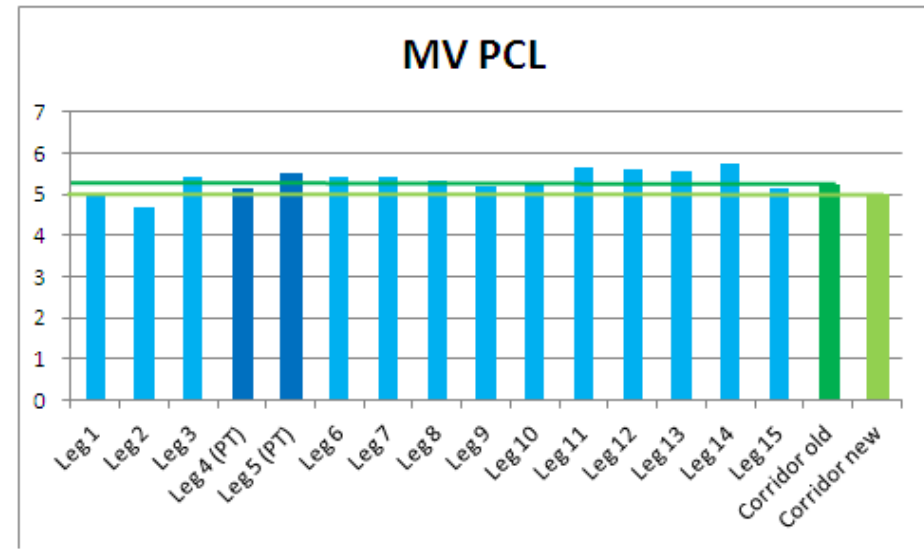
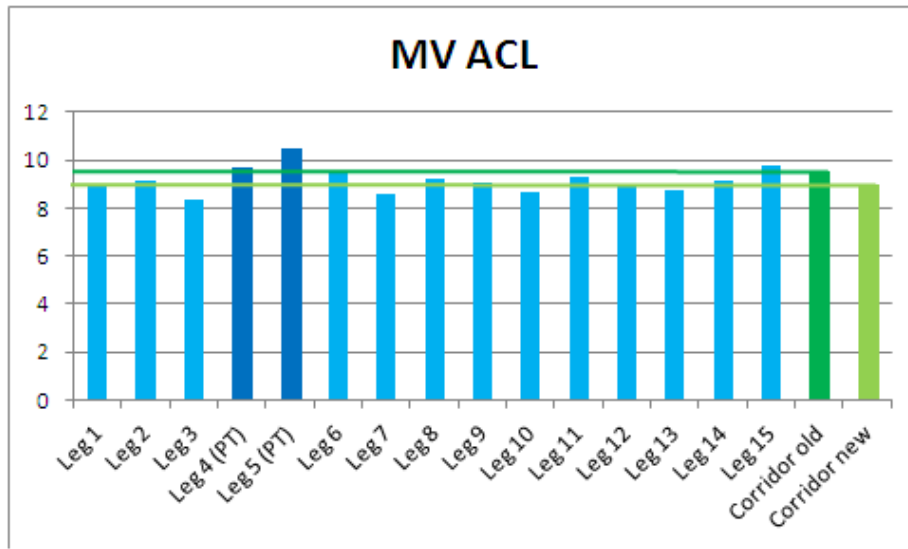
Results MCL - Inverse Tests



Mean Values - Inverse Tests



Mean Values - Inverse Tests



Summary



- **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**