

IBP	Decision Rule	Form IBP-24
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	All Test Laboratories	Revision: 1

Conformity of Test Results

The conformity assessments in test reports must be documented in accordance with section 7.8.6 DIN EN ISO 17025 in such a way that the applied decision rule is clearly evident. The decision rule describes how the measurement uncertainty of a value is taken into account. In accordance with section 7.1.3, the decision rule must be communicated to the customer in advance (during the submission phase). The measurement result lies with a certain probability above or below the conformity value (= tolerance limit, e.g. limit value, reference value, guide value). The following cases can be distinguished (Fig. 1).

- (1) $\geq 95\%$ **below** the conformity value
- (2) $\geq 95\%$ **below** the conformity value
- (3) $> 50\%$ **and** $\leq 95\%$ **below** the conformity value
- (4) $\geq 50\%$ **below** the conformity value (shared-risk, measured value is above the tolerance limit with a probability of 50%)
- (5) $> 50\%$ **and** $\leq 95\%$ **above** the conformity value
- (6) $\geq 95\%$ **above** the conformity value
- (7) $> 95\%$ **above** the conformity value.

At the IBP, only upper tolerance limits are relevant for the tests.

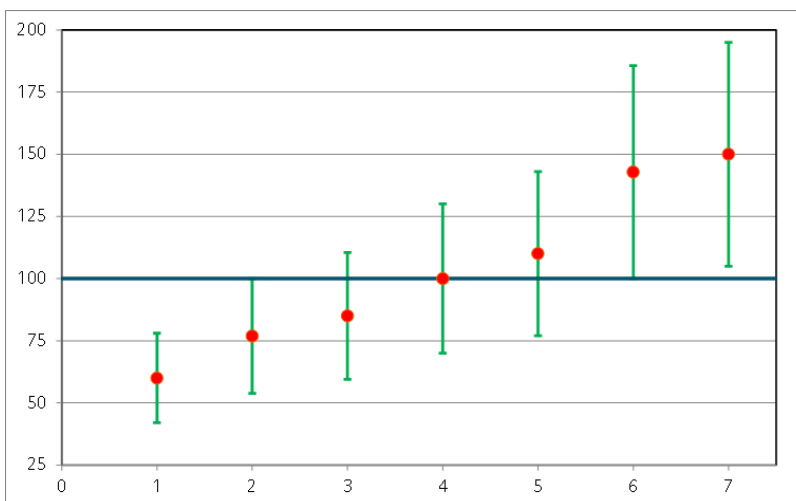


Figure 1: Schematic representation of the measurement results and measurement uncertainties.

Hierarchy of decision rules at Fraunhofer IBP

1. If the decision rule is defined in relevant standards or specifications, these are considered to be agreed with the customer.
2. If there are no standard-specific requirements, Decision Rule 4 (shared risk) is applied. This means that in all cases 1 to 4, the conformity values are met.
3. If the customer requires a decision rule other than 1. or 2. or has specific requirements, these must be communicated in writing by the customer.