

# Decision Rule of Compliance of TÜV Rheinland Hong Kong Ltd.

(Last revision date: 01-Dec-2020)

## Rules of compliance

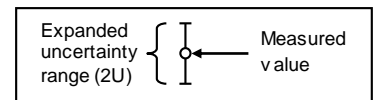
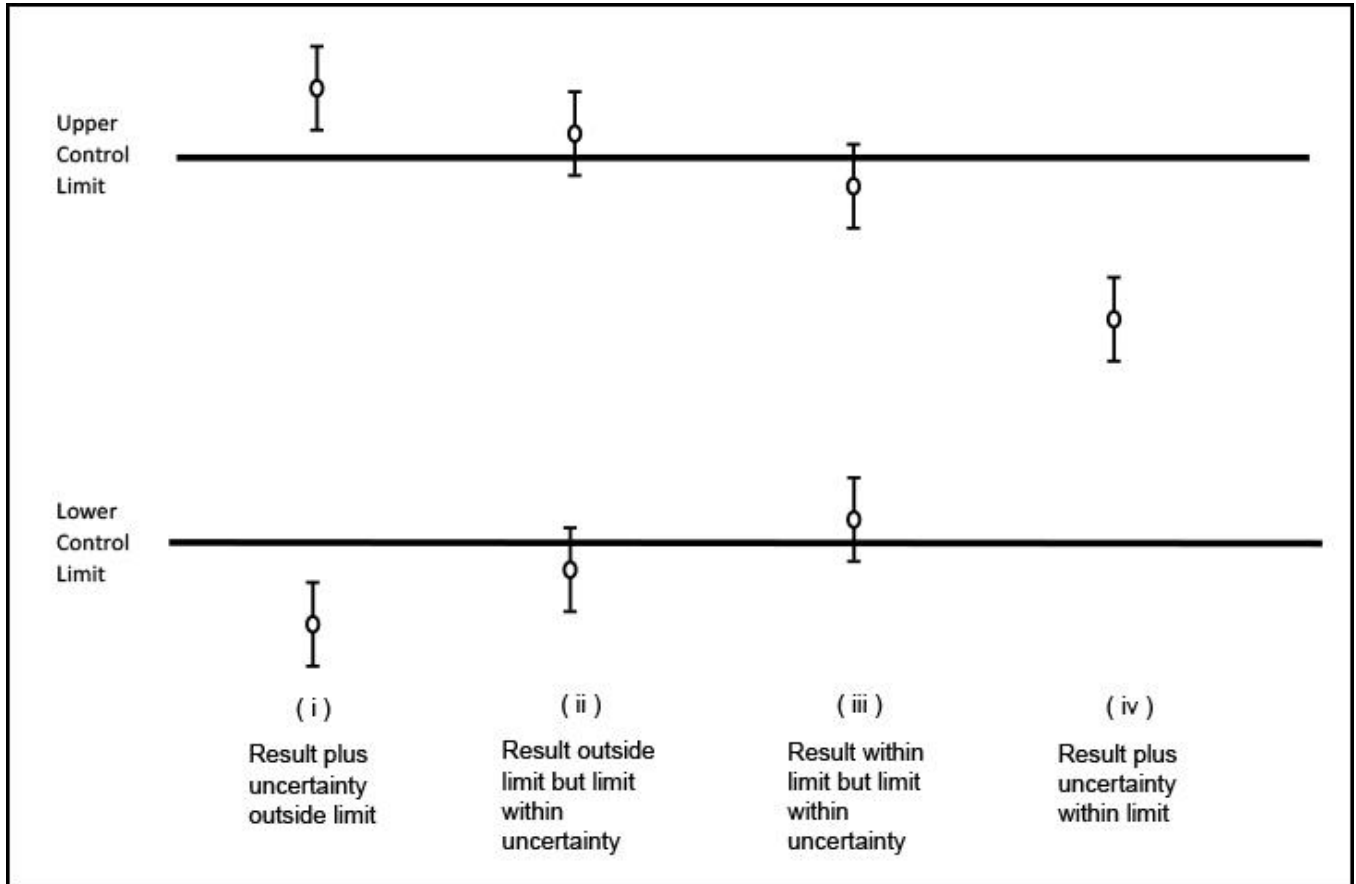
Unless otherwise specified in the order confirmation or no statement of conformity is required, the decision rule specified in this page is applicable to all confirmed orders in the same date or the date after of this revision.

### For non-numerical results (e.g. observation, grading, rating):

A statement of conformity will be reported directly according to test result and specification or standard requirement.

### For numerical results:

A statement of conformity shall be reported based on the expanded uncertainty with a 95% confidence interval. Assuming that limits were set with no allowance for uncertainty, four situations in the figures below are apparent for the case of compliance with upper and lower limits:



Case (i): When reported measurement result plus the expanded uncertainty exceeds the limiting value set in the specification or standard, a statement of not meeting the requirements of the specification or standard is declared, reported as “Non-compliance” or “Fail”.

Case (ii): When reported measurement result exceeds the limiting value set in the specification or standard, but the limit is within the expanded uncertainty range, a statement of not meeting the requirements of the specification or standard is declared, reported as “Non-compliance” or “Fail”.

Case (iii): When reported measurement result does not exceed the limiting value set in the specification or standard, but the limit is within the expanded uncertainty range, the test is required to be repeated when possible, employing a system with a better uncertainty. If, after all reasonable attempts to reduce the total uncertainty have been made, the re-measurement again results in the same situation, no declaration of conformity can be made and reported as “Inconclusive”.

Case (iv): When reported measurement result plus the expanded uncertainty does not exceed the limiting value set in the specification or standard, a statement of meeting the requirements of the specification or standard is declared, reported as “Compliance” or “Pass”.