

**TSG-RAN Meeting #11**  
**Palm Springs, California, USA**  
**March 13-16 2001**

***RP-010232***

**Agenda Item:** 6.1.4  
**Source:** Allgon  
**Title:** Feasibility Study of UE antenna efficiency test methods performance requirements-summary of methods  
**Document For:** Information  
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## **0. Scope**

During the TSGR4#13 meeting a study item was established titled “Feasibility Study of UE antenna efficiency test methods performance requirements” scheduled to be completed in June 2001. See RP-000468, R4-000732. Rapporteur is [olle.edvardsson@allgon.se](mailto:olle.edvardsson@allgon.se). A detailed report (TSGR4#16(00) 0396) on the current status was submitted to RAN4#16 in Vienna, February 2001.

## **1. Summary**

The measurement of antenna efficiency is a fairly complex task and to sort it up a survey of basic test parameters and basic test methods is done. In most cases a simplified method is used or proposed and in the survey below it can be deduced which the losses of information can be when various simplifications are applied. The final result is intended to be a tool to make a choice between different methods.

The following steps have been taken:

- Situations where the test methods may be applied are identified and a number of parameters important in one or more of these situations have been identified.
- Classification after different types of fields around the terminal and its antenna is the most important addition to standard measurement procedures.
- An inventory of test method principles, currently used or published, is devised.
- These test method principles are mapped to situations and performance parameters described.

The following remains to be done:

- Inventory of actually used methods among UE antenna testers and developers to be made.
- Final conclusions / recommendations to be made.

## **2. Final report**

The work is progressing according to schedule. Comments are welcome.