**3GPP TSG-RAN WG4 Meeting #116 R4-25xxxxx**

**Bengaluru, India, August 25th – 29th, 2025**

**Agenda item: 7.24.3.2**

**Source: Samsung**

**Title: TP to TR 38.774 on testability for LP-WUR**

**Document for: Approval**

1 Introduction

In last meeting, the TP on testability in general framework aspect was approved in [1, R4-2508090]

In this paper, we provide text proposal to TR 38.774 on other testability aspect focusing on reducing test time.

2 Text propsoal

**<<Start of Change>>**

8 Testability

*<Editor’s note: discussions and analysis for testability solutions>*

8.1 Testability for UE Performance verification

8.1.1 General Framework

It has been agreed that same LP-WUS RF requirements will apply to all RRC states, but only one RRC state needs to be tested. It is agreed to verify LP-WUR based on 1% MDR of LP-WUS which can be tested based on UE’s response to the NW/TE upon successfully detecting the LP-WUS (e.g. ACK/NACK in CONNECTED state or MSG1/3 in IDLE state or other methods).

For demodulation requirements FAR will also be used.

8.1.2 other

The RAN4 UE RF requirements for LP-WUR requires long test time due to the usage of MDR performance metric. Therefore, it is necessary to consider test time reduction aspects in testability.

* The LR requirements are applicable for various MR configurations. For the purpose of verify LR performance, it is not necessary to test all the combinations between LR and MR. RAN4 agrees to test LR with limited set of MR parameters, e.g., only both the minimum and maximum supported CBW of MR needs to be tested.
* For the case when LR supporting both OOK and OFDM waveforms, test case reduction can be considered.
* For FR2, the LR and MR are assumed to share the same Rx chain so the peak direction for LR is agreed to be the same as legacy Rx beam peak direction for MR. Given the antenna of LR is assumed as single antenna element, it is considered enough to verify REFSENS only, and the spherical coverage test can be skipped.
* **<<End of Change>>**