**3GPP TSG-RAN WG4 Meeting #116 R4-2512594**

**Bengaluru, IN, 25-29 Aug, 2025**

**Agenda item: 7.11.3**

**Source: Qualcomm Incorporated, vivo, Samsung, Keysight Technologies**

**Title: TP to TR 38.771 for TR summary**

**Document for: Approval**

1 Introduction

In this paper, we provide test proposal to TR 38.771 on TR summary.

2 Text proposal

**<<Start of Change>>**

# 6 Summary

This technical report outlines the UE RF testing methodology used to verify new requirements for FR2 PC1/PC5 UE with STxMP. Based on an analysis of system complexity and the feasibility of maintaining consistent relative angular orientations between specific UE test directions and probes, the multi-Rx system defined in [5] with fixed angular offsets between AoA1 and AoA2 and positions all probes on the xz plane, is suitable for STxMP testing.

With consensus on the measurement setup, the procedures for minimum peak EIRP, maximum EIRP, and maximum TRP are defined. It is important to note that the procedures described in this document apply exclusively to STxMP testing with two-layer transmission (i.e., one layer per TCI). The methodology for single-layer transmission with STxMP will require further study once the relevant core requirements are finalized.

Additionally, a preliminary measurement uncertainty budget is provided. Different from legacy uncertainty assessments budget, RAN4 decided to use an additional Test Tolerance to accommodate the difference from the core requirement derivation and test system restrictions due to finite resolution. With the evaluations, RAN4 concluded that AoA1 and AoA2 will have the same additional test tolerance of 0.9dB.

**<<End of Change>>**